PRICE 5 CENTS. \$1 per year.

Farm Department.

nducted as the Michigan Far rm. All correspondence for ould be sent to Battle Creek,

THE EDITOR'S FARM NOTES.

TO STUDY LIVE STOCK HUSBANDRY. So many times we have wished we could have had the educational advantages, when we attended school, that the young people on the farm have at present-even in the district schools. The text books, methods of teaching and school apparatus are so much superior that it almost seems impossible that any pupil can resist the temptation to secure a liberal education "in these times."

For two winters we have tried to arrange our business matters so we could take the course in Live Stock Husbandry under Profs. Smith and Mumford at the Agricultural College. are still "cogitating" over the matter, and know we should greatly appreciate the opportunity.

There is not a farmer in the country would appreciate the benefits which would accrue from knowing how to select, breed and feed his stock more intelligently, economically and profitably than ever before. Improvement and competition make these desirable conditions still more necessary as the years go by.

This one course has eight different lines of instruction that interest us more than anything else, because we to become a specialist in this work, which must include correct theory as well as practice. We have had more or less of the practice on the farm ever since we were born, but the theoretical portion, well "worked in," is essential to produce an "expert." LIVE STOCK JUDGING THAT IS "JUDG-

ING. We wish hundreds of our brother farmers, who are live stock breeders and feeders, could go with us into the yards at the Experiment Station when the instruction in stock judging is

given to the boys. Many of you who annually witness more or less of the so-called judging of stock at local and district fairs, know that it is some-

times a regular farce.

ın

We have often seen farmers standing around a ring containing a few specimens of cattle, sheep or swine, which were being judged by an expert. Nearly every farmer would be glad to learn from this expert wherein one animal was better than another in certain points, and the reasons therefor. By the use of the score card, with a scale of points, this work might be made very entertaining to the farmers present.

We hope to see this done at many of our future fairs where live stock is exhibited. Plenty of experts can be procured from present and future students of Live Stock Husbandry at M. A. C.

A YOUNG MICHIGAN FARMER READER.

I am a single man, 23 years old, and have always lived on a farm, except

during one year teaching school. Expect to take the special course in Live Stock Husbandry at the M. A. C. the coming winter. You may hear from me again. I expect to attend the institute at Lacey and will represent you at that place, if you desire.

We know you will always appreciate your decision to take this special course, for it will undoubtedly cause you to reach up to greater heights still unattained.

Certainly The Farmer wants you to represent it at the institute. Write the Detroit office for material. Also be

Agriculture has sent out circular No. 31 on the question, "Must The Farmer Pay For Good Roads?" This circular was first published by the League of American Wheelmen, and is adopted by the Department.

Being a member of the L. A. W., we

read this circular some time ago and have believed in the following ideas, as promulgated by the chairman of the National Committee:

The League of American Wheelmen maintains that those who profit by an improvement are the ones who should pay for it. We maintain that every Detroit office for material. Also be sure to write an occasional article for in a proper measure to the cost of its

A friend says that the railroads might just as well ask the taxpayers to pay for keeping up their road-beds, That's just what we taxpayers have been doing-indirectly-and not kick if we could have free rides over the track.

We have not room enough to publish this full report in The Farmer, but every farmer interested should write the Secretary of Agriculture, Washington, D. C., for circular No. 31, of the Office of Road Inquiry.

To show how the roads are sometimes used by those who pay no taxes to maintain them, we append what John Gould, of Ohio, has to say in a recent issue of Rural New-Yorker:

John Gould, of Ohio, has to say in a recent issue of Rural New-Yorker:

A new phase of the road question has presented itself here. The township voted to make several sections of broken stone road, covered with gravel. The cost was about \$3,000 per mile, and the road was considered a great improvement over clay roads, and it was resolved to keep on making other sections. This fall, a ship-timber company purchased a tract of oak timber, and hauled it tree length on great trucks, with six teams attached, over the greater length of this experimental road. Many of the logs weighed ten tons or more. The result is that the road is ruined, is so nearly impassable that the logs are now drawn on a roundabout dirt road. What is the remedy? Is it possible to collect damages? If not, what is the use of building roads where non-taxpayers, and those who do not care a continental about roads, can, without let or hindrance, destroy them? What right have the country people to have anything, anyway?

A CONTINUOUS POULTRY HOUSE-See description on page 449.

The Farmer. What about your dairy experience on the farm?
TANK HEATERS.

I have read what you said regarding tank heaters in The Farmer of November 19 and heartily concur with you. We used one last winter and derived satisfactory results.

But now we have a straw stack too close to the tank, so are afraid to put it in on account of sparks. I would like to know if any one of the readers of The Farmer has ever tried or even seen a heater heated by oil. If so, seen a heater heated by oil. If so, would like to know results. Have read The Farmer for a long time. Barry Co., Mich. C. N. E.

For two winters we have used our tank heater in a tank set about 40 feet from the straw stack. We use soft or Jackson Hill coal. There is a fine

improvement. The farmer is not the only one who uses country roads. They are traveled by the country merchant, the itinerant peddler, the village doctor, the commercial salesman from the tor, the commercial salesman from the city, traveling by team to sell his goods to the cross-roads country store, and, to a greater or lesser extent, by the entire people, not to omit, by any means, the wheelman himself. We feel, therefore, that if our roads are to be improved for the benefit of all these people, they all should bear a share of the taxes necessary to be levied for the purpose. And it should be remembered, too, that the entire city population taxes necessary to be levied for the purpose. And it should be remembered, too, that the entire city population will be benefited by the improvement of country roads, not only those who travel them, but all others as well. For, if the farmer, by having better roads, can save in the transportation of his produce, and can afford to sell

screen over the end of the smoke pipe, and no sparks were ever seen to issue therefrom.

We also have used a small oil heater, heated by a double burner kerosene oil lamp. This did very well for awhile, but soon began to leak and we

gave it up.
WHO SHOULD BUILD AND MAINTAIN

The United States Department of

it cheaper in the city; or, on the other hand, if a saving in its transportation gives him a larger margin of profit on what he sells, with more money to in-vest in the things supplied by the city, this results in indirect benefits to the city population.

We believe some form of a State tax should be levied upon all property and all classes of people alike, in order to produce and maintain good roads. Country roads are free to all people.

the Michigan Farmer.
MAKING BUSHEL CRATES.

If Mr. Albert Murphy, of Virginia, will refer to The Michigan Farmer of November 21, 1896, on second page, he will find an article by I. N. Cowdrey, fully explaining a method for making bushel crates. Further comment and suggestion is given in the issue of December 25, 1896. I followed Mr. Cowdrey's plan in making crates for myself and neighbors, and have made and sold enough so that my own came comparatively free from a cash outlay.

In case our friend has not the particular issue to refer to, I would advise him to get water elm plank, two inches thick. Each crate will require 13 pieces 18 inches in length and 8 pieces 14 inches long for sides and bottom, four on each side and end, and five on the bottom. For corners, stuff should be sawed 11/2 inches square and ripped corner-wise, so that pieces will triangular, and cut one foot length to nail the side and end slats to. For bottom corners use inch square stuff, cut in between the posts to nail Use three-penny wire bottom to. nails. Make ends first by placing four of the triangular pieces the right distance apart and nailing securely to a solid bench. Nail the slats, three nails in each end, and then set up endwise and nail on side slats. Now put in the bottom corners and nail to lewer end slat inside. Nail five slats on for bottom and your crate is complete. Each

(2)

crate requires 27 pieces.

The planing mill here saws the stuff for three cents per crate, the customer furnishing the plank. They are well worth the trouble and expense. I have used them for two years and should not know how to farm without them. Ingham Co., Mich, J. W. BUTLER. (We are securing a sample collection of all the crates we find in use on

(We are securing a sample collection of all the crates we find in use on Michigan farms, and shall make a sketch of them when complete. There is one made with a curved bottom, but we have not used it.

There is so much interest in bushel crates that more readers of The Farmer will probably use them next season than ever before.—Ed.)

season than ever before.-Ed.)

THE WORN-OUT FARM.

A long abandoned farm is not so difficult to restore to good fertility as one that has been worn-out by successive cropping by a man who does not understand his business, or who in hiring the place from another does not care how much the land is robbed. Many farms that have been left idle for several years have to a certain extent refarms that have been left idle for several years have to a certain extent restored some fertility to the soil by the natural processes. That is leaves, vines, stalks, and even weeds will add a certain amount of humus and nitrogenous matter to the soil each year. If such land is plowed twice a year, so that the soil can digest and assimilate the plant life that has accumulated there, it will be found to be in a fair way to recuperate.

there, it will be found to be in a fair way to recuperate.

It is not such a difficult matter to restore a run-down or worn-out farm as some people imagine. It simply requires a little practical and scientific knowledge put into operation by a man who isn't easily discouraged. Many a poor man has made his mark in farming on just such worn-out farms. It is

who isn't easily discouraged. Many a ing poor man has made his mark in farming on just such worn-out farms. It is possible to-day for a farmer to take a worn-out farm, and build it up to a paying basis, supporting himself meanwhile. Farms of this character can be purchased reasonably cheap in many parts of the country, or they can be rented for a long term of years, with a renewal clause attached.

The first thing to do in restoring such a farm is to get a crop of some green stuff. In my experience I have always found that it is easy to start a crop of oats by fall plowing, scratching the ground just enough to cover the seeds a little. Then by the following spring when the oats are up they should be plowed under. This makes a good starter, and then by adding crops of grass and clover to the oats the soil will soon get the nourishment that it has so leave leaved.

crops of grass and clover to the oats the soil will soon get the nourishment that it has so long lacked.

In most worn-out farms the soil is stiff and hard, and during dry weather the surface bakes so hard that it is difficult to force a plow through it. There are two remedies for this, One is to work more plant manure in the soil, which makes it more porous, and the other is to underdrain it. If the soil does not respond to the former the other is to underdrain it. If the soll does not respond to the former treatment in the course of time under-

treatment in the course of time under-draining must be resorted to anyway. Too little attention is given to this on most old farms, especially where the soil is a tough clay.

Plowing often is one of the best methods for restoring the lost fertility of any soil. It works well either when the soil has too little plant food in it, or when it is overcrowded with humus. It enables the soil to digest the food, It enables the soil to digest the food, releases much that is imprisoned in it. releases much that is imprisoned in it, and stores up nitrogen from the air. Not only fall and spring plowing, but summer plowing, too, is required on some farms that have been allowed to run down. Such work will often take the place of commercial fertilizers and barnyard manures, although all of the latter that one can possibly secure should be mixed up with the soil at every plowing. every plowing. A, B. BARRETT.

AN APPLICATION OF CRUDE POTASH.

Would the crude potash, as extracted from wood ashes, be too strong to apply direct to growing crops? If so, how should it be treated to apply?

Benzie Co., Mich. JULIUS FOLGER.

We referred this question to Dr. Ked-

We referred this question to Dr. Kedzie, who replies as follows:
Crude potash from wood ashes "applied directly to growing crops," that is to the leaves, would be injurious, as the solution would be too strong. That is not the way to use potash, because the plants do not take in potash by their leaves, but absorb it from the soil by their roots. Mix your wood ashes with the soil and the plants will do the rest.

For The Michigan Farmer PETROLEUM ENDORSES FOR PAINTING

Geo. B. wishes to hear about petroleum for painting purposes. Five years ago last summer I painted my house and barn. For the house I used white lead and pure linseed oil with a little coloring. The barn being weather-beaten I used one part linseed to two parts raw petroleum, thickened with yellow ochre, for the first coat. As I wished to have the barn similar in color to the house, for the second coat I used one part linseed, two parts raw petroleum, thickened with white lead and coloring, with which I painted the two ends and north side. Having some misgivings, I painted the south side (it being the side next to the road), with the same as used on the house. To-day the house and south side of the barn need repainting. It rubs off, or "chalks," while the petroleum paint does not, but has a smooth, hard surface, good for 10 years yet. It takes Geo. B. wishes to hear about petro-

does not, but has a smooth, hard surface, good for 10 years yet. It takes much longer to dry than clear linseed, but give it the time and it will dry and get just as hard and firm as the best linseed, with a more glossy finish.

Clear petroleum penetrates the wood and leaves the paste on the outside to

Clear petroleum penetrates the wood and leaves the paste on the outside to rub off and never dries, or you will think so if you try it, while it forms scarcely no protection to wood. Laper Co., Mich. E. E. O.

Lapeer Co., Mich. E. E. O. (Quite recently we saw a building in a northeastern county that had been painted in a similar manner. It pre-sented a good, hard finish, after two years' use, and did not "chalk," even when severely hand rubbed.—Ed.)

HAY-LOADERS.

What I have to say in regard to the hay-loader will be supplementary to the excellent articles of C. P. Reynolds and L. D. Watkins. Were I to criticise anybody, it would be our editor, when he says: "On the average farm the hay-loader is a useless expense." Or, perhaps, friend Watkins, when he says, his loader is often run at the rate of a load in seven minutes. That is from 75 to 100 loads per day. I have found thirty to forty loads a day plenty for three teams and five or six men, with a boy to drive teams in the men, with a boy to drive team on the field and another to drive team on the with a boy to drive teams in the sling rope. I confess that some of my barns are too low for the rapid use of slings

But I understand the criticism of our But I understand the criticism of our editor to mean that the hay-loader is an unwarranted expense, except under certain conditions. It is my purpose to state briefly the essential conditions for its economical use. First, a man must have conveniences and machinery for unleading. The leader does not for its economical use. First, a man must have conveniences and machinery for unloading. The loader does not load the hay in any shape to pitch off by hand. Hence, if the hay must be pitched off by hand, the time saved in loading will be lost in unloading. The horse fork can be used; but I must prefer the slings. Between now and winter, while the barns are full, is the best time to put up the tracks for use another year, as it can be done with less expense and danger.

I may say that it is not absolutely necessary to have barns for the use of slings, as by means of wire cables and a car for use on same, I have used my slings largely for stacking hay, clover seed and beans.

Second, standard wagons are too high for use with loader. One should use truck with about a 40-inch wheel in front and 44-inch behind, making a very serviceable general farm truck.

in front and 44-inch behind, making a very serviceable general farm truck. Third, the racks should be of the flat type, about 7½ feet wide, and 14 or 15 feet long. Rear standards 4 feet high, with a one-foot board across the top, rounded at the ends to be out of the way of the loader in turning. If slings are used, the front and rear standards should be provided with the proper hooks and notches, so that the proper hooks and notches, so that the slings can be instantly put in place in loading, and found when unloading.

loading, and found when unloading. Fourth, and most important of all, a man ought to have a side delivery rake to use with a loader. This is a tool little known on the average farm, but so essential and necessary to the rapid and economical use of the loader that I did not think best to purchase a loader until I had procured a rake of this type. This rake fallows the mowers as soon as the swath is partly dry, raking two swaths into a continuous winrow around the field, at the same time turning the hay over and leaving winrow around the field, at the same time turning the hay over and leaving it in a light fluffy winrow, in the best possible condition to dry, as well as to be picked up by the loader. It almost entirely does away with the use of the tedder, thus combining two operations

into one. In case the hay is light, the into one. In case the nay is light, the winrows can be made any desired size by so driving as to roll the first raking farther in, and repeating the operation, if necessary. If it is still too small, by driving in the other direction around the field a certain number of swaths can be raked out from the light of the control of the cont side, closing up a winrow exactly as was done with the old-fashioned hand

The great advantage of the side delivery rake and loader is that they se cure the hay in the best possible con dition, at a minimum cost and When we realize that a gang of men, with three boys, by the aid of these tools and the slings, will secure hay nearly or quite as fast as they could put it into the cock without them, we see the advantages of their use.

Oakland Co., Mich.

L. R. HUNTER.

REPLIES TO CANADA THISTLE QUERY.

A. R. asks in Farmer of November 19 how to kill Canada thistles. Our way of attack is to put the field in way of attack is to put the field in corn, or any cultivated crop, give it thorough cultivation, going over this patch every two or three weeks with a hoe, cutting all thisties off two inches below the surface. Have killed small patches in one year, and two years will fix the worst patch. Had one patch of about an acre which had kept spreading until we planted it to spreading until we planted it two years; now we cannot find

Allegan Co., Mich. H. A. SHEFFIELD Saw A. R.'s inquiry in a recent Farmer for ammunition for bombard-ing Canada thistles. I had a patch that I wished very much to get rid of, so used refuse salt on them liberally and

thoroughly.

Cut in July and August when the stalks are hollow and before they seed; salt as fast as you cut or you may lose sant as fast as you cut or you may lose some of the roots. It is a good plan to go over the patch two or three times to get the little ones that may be coming up. If one is thorough they can be killed with two or three saltings.

A local firm of whole salt grocers sent for twelve tons of refuse salt for

A local firm of whole sait grocers sent for twelve tons of refuse sait for myself and half a dozen neighbors. It costs here in the car about \$3 per ton. It comes in bulk and is much stronger than barrel sait. This was quite clean. We are using it for stock; think it is cheaper and just as good as lumn sait.

lump salt. Eaton Co., Mich.

SEED GROWING AND CO-OPERA-TION.

There are so many good seedsmen in the market to-day that there is a danger that the average farmer will get out of the good old practice of experimenting in seed-raising on his own account. Nothing has helped agriculture so much as the individual work of raising and selecting seeds for the improvement of farm crops. It is a mistake to abandon this work. We may depend upon the professional seedsmen depend upon the professional seedsme for the bulk of our seed, but we should for the bulk of our seed, but we should never let the modern system rob us of the pleasure and value of experiment-ing with seed-raising on a small scale. In ever community there should be mutual co-operation in this way.

mutual co-operation in this way.

For instance, I noticed last summer a peculiar tomato vine which produced very fine, elongated tomatoes, of a deep crimson, and very solid. The vine appeared different from any other in the field. I collected the seeds, and shall try to raise the plants from them next summer. If I should succeed in producing a new type of tomato that answers well in this vicinity, I shall give the benefit of my experience to my farmer friends hereabouts, for the simple reason that they are on the looksimple reason that they are on the look out for similar improvements.

simple reason that they are on the lookout for similar improvements. One of
my neighbors is experimenting with a
new white onion that I hope to profit
by some day, and another is interested
in a variety of potato never before
tried in our section. We all belong to
a mutual experimental society by
which all profit.

There is an endless amount of pleasure obtained from this work that an
outsider cannot appreciate. One encourages another to improve the crops,
and it is astonishing how much one
keeps on the lookout for superior
plants to select for raising seeds. Not
only this, but we are indirectly helping towards the grand aim of agricultural science. We are modest in our
views, and do not expect to produce
some new variety or novelty of plant
that will revolutionize agriculture, nor
ever bring us in great pecuniary reward, but we are setified if we conever bring us in great pecuniary re-ward, but we are satisfied if we can

help each other to produce better and larger crops, and find out the h larger crops, and find out the best variety of plants suited to our particular soil and climate. That is about all any farmer can do besides making a comfortable living and laying aside enough for the proverbial rainy day.

New York.

C. W. JONES.

Farmer's Handy Feed Cooker, eader's attention is called to this device ch is sold at \$12.50 for 50-gallon capacity, eeding poultry and animals cooked food ng winter at least



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1,200 Acres Beautiful Blue Grass Farm. Enormous Bargain. Compelled to Sell.

Enormous Bargain. Compelled to Sell.

Level, very rich, deep soil; no rocks; shape nearly square; 800 acres in cultivation; 400 acres in blue grass and timber; can use machinery on nearly every acre; magnificent cisterns; several fine springs and large crystal creek runs through this place; this farm is in the far-famed blue grass belt of Middle Tennessee; modern improvements in best condition; 10 rooms, 2½-story brick residence; 122 tenement houses; 3 barns, 1 ginhouse; rock fence around large part of farm, and cross fences; 200 yards from trunk line railroad. No prettier, better improved or more productive farm in the South. Very healthy, no yellow fever, malaris or like complaints; prettiest climate in the world; high-class, rich neighborhood; near good schools and clutches. Considering the many merits of this farm it is, no doubt, the cheapes and best farm in the South. You had been also from the South. You had been seen the sent of the land and get the improvements free. A prospective buyer to see this is almost equal to a purchaser. Improvements alone cost sver \$25,000. Will sell for \$33,000, third cash, balance 1 to 5 years; 32-page farm catalogue free, describing and pricing a large number of Southern farms, both small and large.

References—Fourth National Bank.

References—Fourth National Bank. City Savings Bank.

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For The Michigan Farmer STICKING TO ONE BREED.

There is sense in the advice of an old stock breeder to stick to one breed. At first I was inclined to disagree with him, for on my own farm I have several breeds of both cows and swine. I have always believed that a little diversity in farming always paid the best in the end. If the market happened to demand one particular kind of breed I stood a better show of suiting it with several breeds than if I only kept one. But diversity has its danger. This is expecially noticeable in breeding an

stood a better show of sulting it with several breeds than if I only kept one. But diversity has its danger. This is especially noticeable in breeding animals. My attention was called to this recently by a man who never succeeded well in anything he undertook. He went into swine breeding. The first year he was in love with the Berkshire plg, and he raised some fine animals, and as I thought stood a fair chance to make some money. But a neighbor induced him to try a Chester White, and before another season he was breeding his whole herd with the idea that the Berkshires were secondary to the Chester Whites. Then came a year of popularity for the Poland-Chinas, and then the Jersey Reds. To-day his animals are a mixture of everything. The breed is hard to define.

That sort of breeding doesn't pay. It is better to stick to one breed continuously than attempt to cross them at that rate. Unless one can keep each breed entirely separate it is more satisfactory to stick to one breed, and keep that up to a high standard. By sticking to one breed one soon learns the special needs and requirements of the animals, and it is possible to improve upon them continually. The majority of farmers have no time to study the needs of half a dozen breeds unless for experimental work.

This does not mean inbreeding. One

experimental work.

This does not mean inbreeding. One This does not mean inbreeding. One must keep up the standard of the herd by introducing new blood every year. But let that new blood be all of the same kind of breed. That is the very simple secret. Breed in line every day and all the time.

WILLIAM CONWAY.

WILLIAM CONWAY.

SWINE NOTES.

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IS.

The average farmer and hog breeder is not as particular in breeding his stock as he might be, or as it stands

is not as particular in breeding his stock as he might be, or as it stands to his best interests to be. To observe ordinary care in mating it is not necessary that one should have a drove of registered stock, or that they be even moderately well bred. The writer refers particularly to a uniformity of color in hogs that are being prepared to be sold for market, and especially if it is the intention to dispose of them on foot.

There are few things that will appeal to the eye quicker than uniformity; it does not make any very considerable difference whether it is in color, shape, or disposition, all are important. But I am referring now particularly to color. This is a feature in hog breeding that I believe is entirely ignored, at any rate, if any attention is paid to it at all, it is by a very small per cent of the swine growers. To illustrate more fully: A has a white sow; B has a black boar. The former wants to breed his hog with the least possible trouble, so he takes it to his next door neighbor who owns the black boar. Following in the natural course of events the progeny of the mating are liable to be a mixture of both colors, as is very generally the case. If one or the other of the parents prove to be an extra strong breeder, it is possible that the pigs will be of a practically solid color, but this must be purely a matter of conjecture. On the other hand, if A had taken the trouble to drive his hog some distance farther to C who owns a well bred boar of the same color, he would have been reasonably certain that his stock would have been of a sofid white, making a much better appearance than any mixed drove could possibly make, all things equal. This will apply to black hogs just as well as white ones; in either the idea in view is uniformity of color.

It may seem that this is a matter of some considerable minor importance;

is uniformity of color.

It may seem that this is a matter of some considerable minor importance; but, nevertheless, it is almost remark-

able how much better appearance a drove of comparatively inferior stock will present that is uniform, as compared with a herd of equally good stock that includes specimens of all colors that are possible to incorporate into the make-up of a hog. If a person interested in cattle comes upon a drove that have a pronounced type of uniformity, even if not of the best quality, he is almost invariably sure to look twice, whereas if they are made up of a variety of types and colors, he may not consider them worthy a second glance. It is not the fact that they are extra good quality that attracts his attention, but simply that they give evidence that care has been used either in their selection or else in their breeding, or both.

The uniform drove of hogs, whether they are in the farm pen or in the stock yards, will always show off to a much better advantage than the multi-colored herd. The appearance will not be lost entirely to the eye of the prospective purchaser, and while there is no fixed certainty that it will increase the price paid, there is every reason to believe that the uniformity may have a tendency to bridge over any little differences in the estimated value of the lot. It is doubtless very true that the extra precautions will not improve the eating quality of the hog; but it seldom proves a disadvantage to follow in line with what is pleasing to the eye.

C. P. REYNOLDS. able how much better appearance a drove of comparatively inferior stock

pleasing to the eye.

C. P. REYNOLDS.

MEETINGS OF LIVE STOCK ASSOCIATIONS.

STATE ASSOCIATION OF BREEDERS OF IMPROVED LIVE STOCK.

The annual meeting of the Association of Breeders of Improved Live Stock will be held in the Senate chamber of the State capitol, at Lansing, on Wednesday, December 21st. The program arranged is as follows:

9:00 a m.—Address by the president;

Wednesday, December 21st. The program arranged is as follows:

9:00 a. m.—Address by the president; report of the secretary-treasurer; discussion of topics in president's address.

10:30 a. m.—"Wool and Its Preparation for Market," by Prof. H. W. Mumford, Agricultural College. Discussion.

11:00 a. m.—"The Situation;" "Horse Breeding," Robert Gibbons; "Cattle Breeding," Wm. Ball; "Sheep Breeding," A. A. Wood; "Swine Breeding," L. F. Conrad. Election of officers.

1:30 p. m.—"Tuberculosis," Dr. C. E. Marshall, Bacteriologist Experiment Station, followed by discussion of the subject. "Some Observations Regarding Swine Plague in Michigan," Dr. G. A. Waterman, Agricultural College. Reduced rates on all railroads, provided 100 certificates are presented to

vided 100 certificates are presented to agent for signature. Secure certificate when purchasing your ticket at home

I. H. BUTTERFIELD, Secretary.

SHORTHORN CATTLE.

SHORTHORN CATTLE.

The eighth annual meeting of the Shorthorn Cattle Breeders' Association will be held in the Senate chamber, at Lansing, on Tuesday, December 20th, with the following program:

2:00 p. m.—Address of the president; report of the secretary and treasurer; discussion of topics in the president's address; "The Future of Shorthorns in Michigan," W. E. Boyden.

7:00 p. m.—"The Shorthorn Cow for Milk and for Beef," Prof. C. D. Smith, Agricultural College; discussion of address; topics for general discussion—"Showing Cattle at the Fairs;" "How to Attract Buyers."

Every Shorthorn breeder in the State should be present this year. Reduced rates can be obtained by securing a certificate from the agent at starting point when purchasing ticket, providing 100 are in attendance at the stock meetings. The return fare to those bolding certificates will be one-third meetings. The return fare to those holding certificates will be one-third

I. H. BUTTERFIELD, Secretary.

RED POLLED CATTLE,

The annual meeting of the Michigan Red Polled Cattle Breeders' Associa-tion will be held at the Hudson House, in the city of Lansing, on Tuesday. December 20, 7:30 p. m. J. M. KNAPP, Secretary.

SWINE BREEDERS

SWINE BREEDERS.

The annual meeting of the Michigan State Swine Breeders' Association will be held at Lansing, December 20, 1898. The meeting will be called at 1 o'clock p. m., in the agricultural laboratory of the Agricultural College, where the afternoon will be devoted to the usual score-card practice. The evening session will be held in the Senate chamber in the entitel. A very complete proin the capitol. A very complete pro-gram has been prepared. Inquiries

have often been made as to conditions of membership in the Association, Our by-laws provide a membership fee of 50 cents, with annual dues of the same amount. Under this plan a fund was accumulated, and as our expenses are light all dues have been remitted for several years past, but will be required again as soon as we need them. Anyone interested in swine, either as breeder or feeder, is welcome to attend our meetings. Let us make this the best meeting of all. Secure your certificate when you get your railroad ticket, and get reduced rate. Everybody come.

GEORGE H. McINTYRE, Secretary. of membership in the Association, Our

The representatives of the municipal authorities of all the German cities of more than 50,000 inhabitants will shortly meet to discuss means of combating the scarcity of meat, and to petition the government to abolish, or, at least, to mitigate, the prohibition of the importation of cattle, and to abolish, or, at least, reduce the cattle duties. The agricultural interests of Germany are so carefully protected that no foreign live stock or dead meat is permitted into the county, with the result as indicated above that meat is so scarce and dear as to be absolutely beyond the reach of the great mass of the people. The inspectoral system—as a system—is magnificent, but what a farce it is to have scientific and microscopic inspection of a commodity poor people can't buy!—London Meat Trades Journal. shortly meet to discuss means of com-

FOR SALE. Percheron Stal lbs. Will take in payment one pair good young horses. J. W. KEENEY, Erie, Mich.

AUCTION SALE OF LARGE ENGLISH BERKSHIRE SWINE,

t the Farmers' Ten Cent Savas... Write for terms of sale to C. E. PAILTHORP, Mt. Morris, Mich.

BREEDERS' DIRECTORY.

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50 SHOKTHORN Bulls, Cows and Heifers of best breeding. Examination requested. The A. P. Cook Co., Brooklyn, Jackson Co., Mich.

REGISTERED GALLOWAYS A. MATTHEWS, Maple B

JOHN C. CHALMERS, Ann Arbor Mich., Breeder of Registered GUERNSEY CATTLE

OLLED Shorthorns and Shorthorns, all regi tered in American Herd Book, both sexes. M. R. FREEMAN & SON, Flushing, Mich.

WM. FISHBECK & SON, Howell, Mich breeders of SHORTHORN CATTLE fro good milking families. Cows and heifers for good milking families. Cows and sale. No bulls except young calves.

A REGISTERED HOLSTEIN BULL 3 years old. Perfectly gentle and first-class in every way. Dam gave over 15,000 lbs. milk in one year. To avoid inbreeding will sell him cheap.

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J. M. KNAPP, Bellevue, Mich. Breeder of Registered RED POLLED CATTLE Glendale 3517 in service. Milk yield of dam 33 months, 21,071 lbs; milk yield of sire's dam 12 months, 10,589 lbs.

BEEF WITH MILK. Herd contains Columbian prize young bulls and cows forsale cheap. If you wan SHORTHOENS that will make you money I can be used to the contained the contained by the contained to the contained by the contained by

CRYSTAL SPRING STOCK FARM. ley Cattle, bred for intrinsic vorit and future usefulness. Riproduct, coupled with fine fution first consideration. Station first consideration. Statios & Son, Silver Creek, Alleg

NOTICE what the Poland-China breeder, J. W. Bush, of Wacousta, Mich., says of a yearling Aberdeen-Angus bull which I selected for him. "Chesney is a very fine animal. I do not regret the \$115 in the least, because he is the best bull in this country. Thank you very much for him." Speak quickly for the FIVE BULLS FOR SALE FROM SAME SIRE, CHEAP.
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HOGS.

FEW Poland-China Boars of April farrow. Good bone, dark in color, at reasonable prices rfect satisfaction. A. O. Bowen, Wixom, Mich.

BERKSHIRE PIGS from stock that is from World's Fair prize whithers. Write for catalog and prices. C. E. Palithorp & Co., Mt. Morris, Mich. BERKSHIRE Boars and Sows of the Baron Lee Strain. Large boned, lengthy fellows. Choice Shropshire rams. J. W. McDowell, Bad Axe, Mich.

DUROC-JERSEY SWINE for Sale.—Spring pigs 7 months old, both sexes, and yearling boar. H. H. MURRAY Grass Lake, Mich.

CHOICE POLAND-CHINA BOARS at extr Close prices to close out. They must go Address BOBERT NEVE, Pierson, Mich.

Duroc-Jersey Swine. Spring and sale; both sexes. H. D. HALL, Martin, Mich.

IF you want large, smooth POLAND-CHINAS write me for BARGAINS. POLAND-CHINAS WILLARD PERRY, Hastings, Mich.

If You Want a Good Poland-China Cheap it will to write to WM. L. PENNOCK, Hastings, Mich.

Large English Berkshires. Choice pigs of either prices. MERCHANT KELLY, Woodstock, Mich.

Large English Berkshire Swine for Sale. FRED PARSELL, Flushing, Mich.

KRAAL" has Chester-White Hog m Eastern sires and Western prices. H. G. SELLMAN, So. Ly

POLAND-CHINAS.-2 June Bears, Sows, August and Sept. Pigs for sale E. A. CROMAN, Box 99, Grass Lak

POLAND-CHINA SWINE from 3 months to 3 years by W. C. HOWE, Howell, Mich.

. CROSS, Ovid, Mich., breeder wine. Stock for sale. Breeding st easonable prices. Correspondence

Special Price on Poland-China Boars of April

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BARGAINS on serviceable P. C. BOARS. Extra Bargain, heavy bone, good quality; June and July Pigs at fall pig's prices at E. M. EIGHME'S, Owosso, Mich.

BERKSHIRES. 9 Blue ribbons. If you want a herd that won 9 blue ribbons at State Fair in '97 address N. A. CLAPP, Wixom, Mich.

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50 Duroc-Jersey Swine for Sale. Both sexe to 1 yr. old. No. 1 stock at reasonable prices. Send for price list. J. H. BANGHART, Lansing, Mich.

100 DUROC-JERSEY SWINE. Unsurpassed in dividuality. Correspondence solicited.
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SOME CHOICE POLAND-CHINAS

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100 HIGH-CLASS DUROC-JERSEY SWINE. Largest Hord in Michigan.
HERBERT W. MUMFORD, P. O. Agricultural College, Mich.
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GETTING RID OF THE SURPLUS

A report from Lexington, Ky., says an association has been formed there by thoroughbred breeders, having for its object the destruction of worthless thoroughbred mares by destroying their identity and shipping them South. It has created the biggest sensation in breeding and turf circles of any movement of recent years. The Breeders' Mutual Benefit Association, as it is called, has already bought 92 cheap mares at the Lexington sales for \$2,-475, and they will be sent away and their identity destroyed. The breeders all over the country have been notified by circular letter of the formation of this association, and invited to join it and contribute to the fund for buying and contribute to the fund for buying the cheap mares. So far there have been many responses, all of them favorable. The American Horse Exchange, New York, has wired congratulations to the breeders and also sent by wire \$100 to be added to the fund.

While the organization of such an

While the organization of such an association has been generally commended, there are a number of parties connected with the turf who do not believe that the remedy proposed is a proper one. It is an admitted fact that the breeding of thoroughbreds has been everyone "during the past, ten years." overdone 'during the past ten years. Twelve years ago there were not over 500 thoroughbred mares in Kentucky. To-day one establishment near Lexington has nearly 700, and in the entire state there must be in the neighborhood of 1,500 mares engaged in producing horses for racing nurnoses. Twelve of 1,500 mares engaged in producing horses for racing purposes. Twelve years ago there were registered in Bruce's Stud Book not more than 1,500 mares, while possibly 500 were being bred to thoroughbred horses that were not registered. A well-posted turfman thinks that there must now be in the neighborhood of 7,000 to 8,000 thoroughbred mares in the stud in this country, so that instead of about 1,200 country, so that instead of about 1,200 thoroughbred yearlings placed on sale each year, as was the case ten or twelve years ago, there are now not less than 5,000 youngsters offered each

while the race tracks have multiplied, and while racing is conducted the year 'round, there is not a sufficient demand for this large number of colts and fillies to make their production profitable. Many of the largest breeders are doing business on borrowed capital, and since the prices of thoroughbred yearlings have gone down they are having trouble in making ends meet. With yearlings and weanlings selling for \$10, \$25 and \$50, as many of them did at the Eastern sale last week, there is actual loss to as many of them did at the Eastern sale last week, there is actual loss to the breeder. It costs \$20 a year to keep a brood mare in Kentucky; it costs \$60 to keep a colt six months the way they are kept, and it costs \$10 to sell it. This makes the actual cost of a yearling colt \$100 without allowing anything for the service fee of the stallion or the uses of the mare, for on an average only seven colts can be reared from ten mares in a year. When the average service fee—\$50—is added, and \$50 for the use of the mare, it will be found that a thoroughbred colt costs the breeder the neat sum of \$200 by the time he gets it to the sale ring. Nearly all the large breeders buy all the grain and hay they feed their colts Nearly all the large breeders buy all the grain and hay they feed their colts and brood mares, as their farms fur-nish nothing but grass. Thus these breeders are out large sums in cash each year for feed stuff for their

Whether the Mutual Benefit Associa Whether the Mutual Benent Associa-tion will be able to remedy the market is believed by many to be doubtful. There is such a great overproduction of thoroughbred yearlings that the pur-chases of the association will be but as a drop in the bucket, and the num-ber of masses will continue to increase of mares will continue to increas

ber of mares will continue to increase until thoroughbreds will be as plentiful as cart horses and really cheaper.

The figures given above as to cost of a yearling to its breeder afford also some basis upon which to reckon the cost of producing light harness horses. It appears certain that no breeder can afford to sell a yearling trotter from a popular and high priced sire under \$150. The question is, how many of them return a profit to the breeder? Of course now and then a sensational colt is secured that sells at a high price, and this helps balance the account with the cheap ones. If such

colts were not bred now and then the breeder would be in a bad way, and must finally fail if he relies entirely upon his breeding operations to meet running expenses. The business of breeding horses for speed is as precarious as investing in lottery tickets. It is different where a farmer has one or two good mares, and conducts his breeding operations merely as an adjunct to his business.

FRENCH METHODS OF FEEDING HORSES

are recommended to adopt Farmers are recommended to adopt a mixed ration of barley and oats for their horses, instead of an exclusive oat feed. Climate has to be taken into account. In the south of France and Algeria, barley is preferred for horses. In England, the secret for the rearing of horses is stated to reside in the oat bin. Beyond doubt it is the grain that best suits horses, as it contains in large proportions the principles which hasten growth, impart vigor, produce best suits horses, as it contains in large proportions the principles which hasten growth, impart vigor, produce strong muscles and hard bones. Black and grey oats are the varieties in favor in France; they weigh 40 lbs to the bushel; the white variety is not ranked as so nutritive. Barley is a good grain, and succeeds very often in the all round feeding of horses. Belgium employs the mixture of oats and barley for working horses. No marked the all round recung of houses. But gium employs the mixture of oats and barley for working horses. No marked difference is observed in their appearance and health, and the gain in point of economy, though in favor of the mixture, is not much. French farmers prefer substituting for the part oat alimentation, maize and beans. Veterinary Surgeon Colin protests against giving horses rye, unless in the form of crushed, or as a meal. Its grain is too hard for the horse to digest with profit. When the rye is crushed, mixed with cut-straw, placed in a bucket, and covered with boiling water, the steep, after eight hours, will be relished by the horses. Rye can never be employed as a substitute in the feeding of working horses; it can be in the case of animals only to be fattened.

HORSE GOSSIP.

At the midwinter sales of thoroughbreds, held at Lexington, Ky., lasting ten days, 643 head were sold for a total of \$124,805, an average of a trifle over \$194 per head.

Lissak, a famous race horse, was purchased at the Lexington sales for W. C. Whitney, of New York, at a cost of \$7,600. Lissak is six years old, sire! by imp. Loyalist, dam imp. Capability.

Flat racing in England closed for the season on November 26th. Madden has ridden more winners than any other English jockey; Tom Loates is second in number of wins, and Morn-ington Cannon third. None of them, however, came near equalling Tod Sloan's average.

We referred last week to the action We referred last week to the action of the Royal Agricultural Society of Great Britain adopting a resolution excluding foals, yearlings and two-year-olds that are docked from the society's shows. The resolution as adopted is as follows: "That at and after the Maidstone meeting of 1899 no foals with docked tails be allowed to be exhibited at the society's country meetings; that at and after the meeting of 1900 the same rule shall apply to yearlings as well as foals, and that at and after the meeting of 1901 to 2-year-olds also."

Our Paris correspondent says the

meeting of 1901 to 2-year-olds also."
Our Paris correspondent says the annual show of mules and asses for the region of Poitiers, was recently held at Fonte noy-le-Comte. It was very successful. All the entries were of animals that figure in the stud book—alike for mules and asses. Since the cessation of the Spanish war in the West Indies, a great decline has set in for mules; the French-commissariat, however, purchases the animals extensively. It is remarked that the mules are becoming much larger and the are becoming much larger and the breeding trends in that direction. There is an extensive demand for the asses, to meet the necessities of holiday resorts. A great many parents prefer the Poiton ass for nursery carriages to a peny pony.

The fact that it is almost impossible The fact that it is almost impossible to sell a trotter or pacer that has to wear hobbles, for a road horse in any of the large cities, will induce owners and drivers to discard them in the future to a very large extent. A hobbled horse, says the Horse Gazette, is dangerous on the track and an eyesore on the road. I know of half a dozen Buffalonians who are on the outlook for fast horses for the winter carnival on

the snow. Approach them with a good horse, and the first question asked is "does he wear hobbles?" If the an-swer is yes, they invariably shake their heads and walk away. It is the same in New York where they have the greatest speedway on earth. Throw the hobbles away, trainers and drivers, or ruin your prospective campaigner for marketable purposes.

In commenting on the recent sales of Star Pointer, 1.59¼, and Cresceus (3), 2.11¼, John Splan had this to say: "It simply goes to show that the cham-"It simply goes to show that the champions in their class, the well-bred trotter and pacer, are being sold very cheap. Certainly Pointer was well worth \$25,000 of any man's money; for aside from the fact of his being the fastest and best advertised horse in the world, his value in the stud was apparently overlooked. It was on my advice that Mr. Ketcham bought Robert McGregor, 2:17½, in 1890 for \$8,000. There were some individuals who said he was foolish to buy. The gentleman came to me about it, and I said to him that the stallion would win out his that the stallion would win out his purchase money in the stud, and that his get would put money in the bank for him. Now I will venture to bet a new hat that Cresceus won many thousands last year for his owner, and it is a fact that Ketcham certainly lost nothing in dispessing of the borses to the nothing in disposing of the horse to the Kalamazoo stock farm for \$14,000, even though the price was small."

One of the strongest incentives to imone of the strongest incentives to improvement of horse breeding in this country, says the Drovers' Journal, has been the discrimination of foreign buyers against unsound, blemished and ill shaped American horses offered in the open markets. Exporters do not purchase unsound animals and are critical judges of all the points of contractives. judges of all the points of conforma-tion, and the education which they have imparted to domestic dealers will accel-erate the weeding out process in the domestic horse industry. A rough hock is no longer an excuse for a spay-in. Rounding on the beek joint means in. Rounding on the hock joint means that the animal has a curb. Side bones and splints are not overlooked in the inspection. A careful and thorough examination is given every horse purexamination is given every horse purchased for exportation to discover unsoundness and defects of conformation. The effect of such rigid inspection will consummate a general condemnation of unsound animals for breeding purposes. Blind mares and blind stallions ought to be excluded from every breeding establishment, as one of the most frequent of unsoundness among draft horses is defective eyesight. eyesight.

The principal reason for the urgent demand in Europe for the American trotter with an extreme flight of speed is the liberal purses offered at the for eign harness race meetings. The earn reign harness race meetings. The earning capacity of a fast trotter in Europe is almost fabulous and the novelty of harness races is very attractive to the public. No European breeds have yet been able to contend on even terms with the American trotter, not even the much-vanited. Orloff and Franch much-vaunted Orloff and French coacher. The superiority of the Amer-ican performer to all other breeds is at-tested by the amount of winnings placed to his credit. The largest winplaced to his credit. The largest winner on the continent the past season
was Princess Nefta, sired by the standard bred stallion Prince Warwick, she
leading the list with \$13,510. Col.
Kuser, 2:11¼, an imported American
trotter, ranks second in the list of winners with \$11,075 to his credit. Athanio,
by Junio 2:22 comes port with \$10. by Junio, 2:22, comes next with \$10, 150.—Drovers' Journal.

Sharples Quality.

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THE PROSPECT FOR FINE WOOLS

It is quite probable that we are on It is quite probable that we are on the eve of an improved market for Merino wools. It will be noted that re-ports from the London wool sales refer especially to the strength of these wools, choice Australian Merino wools, both in the grease and scoured, show-ing an advance over prices paid at the October sales. It is quite evident these wools are not in large enough October sales. It is quite evident these wools are not in large enough supply to meet the demand of manufacturers. No wools of any class are being purchased for the United States, so the improvement in tone and values does not come from American competition. It is simply the result of changing the flocks in the principal woolgrowing sections of the world from fine to middle and coarse wools, through a system of grading or cross-breeding. This system has been followed in Australia and South America to such an extent as to completely change the character of the clips from a large percentage of the flocks in those countries. As to what caused this change from growing fine wools to the production of other grades, it is simply the result of low prices for wools and a steady demand at advanced prices for mutton. This was also helped by the fashions in men's clothing, calling for a different class of wools from that furnished by Merino flocks. The sheep-raiser in Australia and the Argentine Republic, with immense Merino flocks on hand, saw the price of such wools drop below the limit of profitable production, and he had to make a change of some kind

with immense Merino flocks on hand, saw the price of such wools drop below the limit of profitable production, and he had to make a change of some kind or go out of business. The successful shipment of frozen carcasses of sheep from these countries to Great Britain, and the fair prices realized upon such shipments, started flock-masters to change the character of their flocks. They wanted a larger carcass, and one that could be grown more quickly than the Merino which had only been used to produce good fleeces, while their mutton qualities were largely neglected. The English mutton breeds, with their record for early maturity, and the fine quality of their meat, were naturally turned to as offering the surest and quickest means of changing their flocks from wool to mutton production. Heretofore it had been wool with the carcass as a secondary consideration; now it was the carcass that was wanted with the fleece as an incident to its production. The result is seen in the ed with the fleece as an incident to its production. The result is seen in the large shipments of frozen mutton from Australia and the Argentine, and the change in the character of the fleeces from fine to cross-bred and coarse wools as the grading with mutton rams continued. The breeds generally relied upon were the Lincoln, Cotswold and Leicester in the long wools, and the various families of the Down breeds in the middle wool classes. Argentina purchased enormous numbers of Lincolns, as well as Cotswolds and Shropshires, and Australian flock-owners ed with the fleece as an incident to its production. The result is seen in the and Australian flock-owner snires, and Australian flock-owners took up with the Southdown, Shropshire, Hampshire and Oxforddown breeds. The change made a great improvement in the mutton qualities of their flocks, and the wool produced was also in good demand. But the proportion of fine weal preduced was decreased also in good demand. But the propor-tion of fine wool produced was decreas-ing each year, and the clips were be-coming very mixed in character. This system of cross-breeding has been fol-lowed until the world is suddenly con-fronted with a deficiency of Merina fronted with a deficiency of Merino wool. That is the situation to-day, and it is one that is becoming more

wool. That is the situation to-day, and it is one that is becoming more pronounced each month.

The same conditions that produced the changes referred to abroad have also been at work in the United States. The wool clip of the country has entirely changed in character. All breeds of mutton sheep have been crossed with the Merino flocks on the farm and on the range. Good straight Merino fleeces are scarce in the wool-producing sections. There are yet considerable stocks of such wools held at the east, as the result of heavy importations to escape the duty levied by the Dingley bill. Next season they will be scarcer than ever, especially as the fashion in goods is changing to those of a finer grade with a smooth finish. When the stocks at the east are exhausted, as they will be before spring, from where is the deficiency to be supplied? That is an important question for flock-owners to consider, and especially those who yet have flocks of good Merinos.

It looks to us as if they were about to have their innings, and that values are extremely likely to show a strong ad-

PROFIT IN SHEEP.

The Governor of the Territory of New Mexico, in his annual report to the Secretary of the Interior, takes octhe Secretary of the Interior, takes occasion to refer to the sheep industry in that section, and its importance to the residents of a territory whose natural productions are not of a diversified character. He says: "A few years ago sheep could be bought for 75 cents per head and even at that price there were few buyers. To-day ewes are selling freely from \$3.00 to \$4.00 per head; yearlings (wethers), \$2.50 to \$2.75; two years and up (wethers), \$3.00 to \$3.25, and six-months-old lambs at from \$2.00 to \$2.25 per head. One of the prominent sheepmen of New Mexico, who started in the business 20 the prominent sheepmen of New Mexico, who started in the business 20 years ago with practically no capital, has just disposed of his business and finds himself worth over \$100,000, notwithstanding the fact that he, in common with the other sheepmen, lost money for several years during the agitation for and life of the Wilson bill." Continuing the Governor says: "The advance in the price of wool has kent

advance in the price of wool has kept step with that of the sheep. In 1896, when sheep were worth only 75 cents per head, the price of wool touched its lowest point. Eastern commission houses even refused to make any advance on greese wool and owners were vance on grease wool and owners were offered 3 to 5 cents per pound for the fine clips. To-day these wools are onered 3 to 5 cents per pound for the fine clips. To-day these wools are worth 11½ cents to 14 cents per pound and the importing price of wool has not yet been reached by 2 to 3 cents per pound. Light shrinking wools sold as high as 17½ cents last fall."

The above statements clearly show the effects of legislation upon the sheep industry, and the results that follow the legislative policy of Congress in dealing with this very important interest. The effect of the present policy has certainly been most beneficent upon the industry, and has been equally beneficial to all sections of the Union. The above statements clearly show

HOW WOULD IT DO WITH DOGS?

The Tacoma Ledger tells how the sheep raisers in Washington are going to work to circumvent that cutest of all wild animals, the coyote, which does much damage to their flocks. One sheep raiser had lost about 100 head the past season, and one night during lambing time the coyotes carried off ten good lambs. He got mad, went to Yakima and purchased twenty-six cayuses (Indian ponies), some of which were in the city pound, and secured the were in the city pound, and secured the others from Indians He shot these horses at different points on his range, and poisoned the carcasses, using about a half ounce of strychnine and about a half ounce of strychnine and about an ounce of arsenic to each horse. This was done about a week ago, and reports from the neighborhood show that dozens of coyotes have already found the bait. A number of sheep men are adopting this plan. It serves a double purpose. First, it gets rid of the coyote in the cheapest way. Second, it gets rid of a few cayuses.

rid of the coyote in the cheapest way. Second, it gets rid of a few cayuses, which are almost as big a nuisance as the coyotes. The coyotes will kill sheep directly, while the cayuse makes war on the sheep by eating the grass so closely the sheep cannot exist in the winter, and hence have to be fed.

It strikes us that some such plan would work well in the case of dogs. Dead carcasses of any kind could be prepared and left in pastures where flocks have been attacked. The dogs are sure to return, and would soon be feasting on the carcasses if there were no sheep in the field. The scheme is not a new one, but it could be made very effective. very effective.

WOOL STATISTICS.

The most important change in the position of wool the past year has been the great decrease in imports, both of wool and its manufacture, less than \$32,000,000 in place of more than \$102,000,000. It is an astonishing fact, which illustrates the decadence of our which illustrates the decadence of our sheep industry from 1894 to 1897—its almost utter collapse—that the whole value of our domestic wool, mutton and lamb was not sufficient in 1896-7 to pay for our imports by some \$40,000,000. This year in comparison we save about \$70,000,000 in imports, and by increase in quantity and value get some \$40,000,000 more for our wool and mutton—that is, our wool and meat are

worth about \$100,000,000 against \$60,000,000 the previous year.

The details of this change are interesting, as given in the treasury records just published. The value of wools imported is \$16,783,692 against \$53,243,191 the previous year, and of manufactures, \$14,823,768 against \$49,162,992. In these figures are included values of rags, wastes, shoddy and flocks In these figures are included values of rags, wastes, shoddy and flocks amounting to \$697,622, or 3,299,771 pounds—a great falling off from the record of the previous year, 49,913,732 pounds, equal to almost 150,000,000 pounds of wool, coming in to displace domestic wool and depreciate the quality of our clothing supply and costing before shipment \$6,935,658. Placing these with the wool imports, we have the following comparison for we have the following comparison for fiscal years:

Pounds. Value. Pounds. Value. Class 1, 200,759,079 \$34,281,656 \$4,430,878 \$7,969,611 \$Class 2, 37,961,490 \$7,187,620 \$4,230,873 \$895,599 \$Class 3, 112,141,457 \$11,773,915 \$80,031,342 7,954,482 Total....350,852,026 \$53,243,191 132,795,302 \$16,893,692 Shoddy.. 49,913,732 6,935,658 3,299,771 697,622

The imports of the previous year were some 50 per cent more than all were some 50 per cent more than all our domestic supply, and of last year only about half as much as the past year's production. This is certainly a great improvement, a great help to growers and a vast benefit to consumers in escaping the infliction of shoddy and the brash wools of hot climates and neglected sheep husbandry.

More than half of this avalanche of imports comes from England, though

imports comes from England, though little of it is grown there; over 28;000,000 pounds from China and other parts of Asia, and some from France, Germany and other countries of Europe.

FLOCKS AND FLEECES.

The twentieth annual meeting of the The twentieth annual meeting of the New York State American Merino Sheep Breeders' Association will be held in Rochester, at the Whitcomb House, Tuesday and Wednesday, December 13 and 14, 1898. Meeting of the executive committee Tuesday evening at 8 o'clock, Wednesday morning meeting called to order at 11:30. President's address, secretary's and treasdent's address, secretary's and treas-urer's reports. Wednesday afternoon, at 1 o'clock, election of officers for 1899 and miscellaneous business. The secand miscellaneous business. The secretary of the association is J. Horatio Earll, Skaneateles.

While the sheep scab is included among the list of diseases to which sheep are liable, it is only so done for convenience. No veterinarian thinks of this scab insect as a disease in the way those disorders of the animal functions are which are due to infection or disare which are due to infection or disturbance of the general health. It is no more a disease in this sense than those disorders due to parasites which affect plants, as for instance the apple scab, or those minute pests, the plant lice, which are treated by chemical liquids in precisely a similar way to that in which the sheep scab is.

The Union Stock Yards Company, at Fort Worth, Texas, has bought a valu-able goat. With a large shipment of able goat. With a large shipment of sheep fed here was this goat Sancho. When a carload of sheep was cut out to be reloaded Sancho would lead the sheep into the car, taking his stand near the door, and would jump out as soon as the last sheep was in. The stockyard men were so pleased at the time saved in loading by the use of Sancho that they clubbed in and benught him from his owner a Largdo Sancho that they clubbed in and bought him from his owner, a Laredo sheep man, at a very high price. The time saved in loading a trainload of sheep was several hours.

In a review of the Australian wool trade during the past season the Adelaide Observer remarks that though production was on a reduced scale owing to heavy losses amongst the flocks through drouth, what was lacking in through drouth, what was lacking in quantity, was almost made up by quality, and a rising market resulted in a return to growers which compared favorably with the financial results of previous seasons. Fourteen years ago shipments from South Australia aggregated 152 350 bales, and four years snipments from South Australia aggregated 152,350 bales, and four years later had fallen to 134,427 bales. From that date up to 1895-6, with one exception, there was a regular animal increase until 179,576 bales were sent away. Last season the export was only 115,603 bales, the smallest shipment for twenty were ment for twenty years.

ment for twenty years.

The ninth annual meeting of the Hampshire Down Breeders' Association was held at Chicago, November 23d. After listening to the report of the secretary, which showed the association to be in good financial condition, resolutions on the death of James H. Taft, late of Mendon, this State were adopted. The officers elected for

the ensuing year are as follows: President, I. J. Hiller, Michigan; vice-presidents, J. W. Ganes, Wisconsin; J. G. Massey, Wyoming; E. M. Benham, New York, and P. W. Artz, Ohio; secretary-treasurer, John I. Gordon, Mercer, Pa. The death of Mr. Taft was a severe blow to the interests of this breed in Michigan, as he was an enthusiastic admirer of the Hampshires, and always pushing their claims for recognition. recognition.

and always pushing their claims for recognition.

The county figures just issued showing the number of sheep kept in Great Britain this year point to a slight but welcome increase of prosperity for our flockmasters. In England there has been an average increase of 10 head for every 1,000 sheep, in Scotland an increase of 22, and in Wales of 23. The average number of sheep to every 1,000 cultivated acres in Great Britain is 464, the total stock being nearly 27,000,000. The best stocked county is Kent, with 957 head to each 1,000 acres; the worst—leaving out the county of London—lis Cheshire, with 145. London is included in the returns as a sheep county, although it is far and away at the bottom of the list with an aggregate stock of only 5,437 out of the 27,000,000 kept in Great Britain.—London Meat Trade's Journal. Trade's Journal.



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WANTED cality, local or traveling, to cality, local or traveling, to cality, local or traveling, to tacked up on trees, fences and bridges throughout town and country, steady employment; commission or salary; \$65.00 PER MONTH AND EXPENSES not to exceed \$2.50 per day; money deposited in any bank at start if desired. Write for particulars. The Globe Medical Electric Co., Buffalo, N. Y. RELIABLE MEN in every lo

BREEDERS' DIRECTORY.

SHEEP.

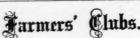
FOR SALE. Thirty young thorough-bred SHROP. EWES. FRANK H. LEMEN, Whitmore Lake, Mich.

RAMBOUILLET, U. S. A.—100 rams and 100 ewes registered, for sale. TROMAS WYCKOFF, impor ter and director of breeding, Orchard Lake, Mich

LINCOLN Sheep and Chester White Swine.
Either sex, and all ages for sale. Write or come and see me. A. H. WARREN, Ovid, Mich.

POR SALE.—14 choice Oxford-Down Rai lambs, registered. Also registered Tamwort swine and Red Polled cattle. Farm ½ mile from city limits. EDWIN O. WOOD, Flint, Mich.

SHEOPSHIEE HALL STOCK FARM has on hand a few Scholee imported yearling and two-year-old rams. Imported ram lambs and yearling and two-year-old American bred ewes and rams. Personal nspection invited. L. S. Dunham, Concord, Mich





CONDUCTED BY A. C. BIRD.

All correspondence for this department should be addressed to A. C. Bird, Highland, Mich.

OFFICERS OF THE STATE ASSOCIATION OF FARMERS' CLUBS.

t-E. J. Cook, Owosso. sident-Mrs. E. L. Lockwood, Peters

etary-Treasurer—C. M. Pierce, Elva. ctors—W. H. Howlett, Dansville; C. J. s, Damon; F. M. Whe:an, Vernon; A. L. n, Springport; H. Gaunt, Highland; A. P. Eaton Rapids.

All communications relating to the organiza-ion of new clubs should be addressed to C. M. Pierce, Elva, Mich.

CONVENTION NOTES.

All delegates should bring credentials.

Governor Pingree will address the

Read the Association Constitution in another column. Many old-time faces will be seen

the delegates. Every session will be called promptly on the appointed hour.

Discussions should be strictly confined to the subject in hand.

Too many demands for legislative action will result in nothing accomplished.

There promises to be no break in the regular program as published in The

The convention will be the largest thus far in the history of the State Association.

On arriving you will find Associa-tion Secretary Pierce at the reception room, Hudson House.

Reduced rates on all railroads and at all hotels. Association headquar-ters at Hudson House.

Several amendments to the consti-tution will be proposed. If possible give it a careful reading before coming to the convention.

Many of last year's delegates will be present as visitors. This all indicates a thoroughly united and healthy organ-

Shall it be made possible to elect an Association officer to a second term?
This question will come before the convention.

Every delegate and every visitor should arrange to remain to visit the several State institutions on Thursday. Plans have been carefully made.

Insist on receiving certificates from our local railroad ticket agent. He as them. In no other way can rehas them. duced railroad fares be secured.

Visiting members from many local clubs will be present besides the regu-lar delegates. Every courtesy except the privilege of voting will be extended to them.

The questions on State Institutions to be answered by the respective heads of these institutions will be a most interesting and valuable feature of the meeting

The loyal and unselfish work of President Cook and Secretary Pierce throughout the entire year, and especially during the preparation for the annual meeting, will be felt in each and every session of the convention.

Judging from the yet incomplete lists of delegates received at this of-fice a large percentage of the number will be ladies. The praiseworthy prac-tice of sending one lady and one gentleman delegate from each club is growing in popularity.

The Kimmis County Salaries bill and the Atkinson Equal Taxation bill will both be given the most careful consideration at the business sessions. consideration at the business sessions.

If possible every delegate should give the text of both measures careful study before coming to the convention.

The following from President Cook should be made known to every club member in Michigan: "Can I be almember in Michigan: "Can I be allowed, through the Club department of The Michigan Farmer, to invite the members of local clubs who desire to do so and whose clubs have not joined the Association, nor elected delegates, to meet with us in our annual meeting? They will not be members, but visiting brothers. They will get the same reduced rallroad fare and hotel rates as the regular delegates, and receive a hearty welcome at all our sessions;

and I believe they will obtain much of value to carry home to their local clubs. Come and enjoy this gathering clubs. with us.

STATE ASSOCIATION CONSTITU-TION AND BY-LAWS.

PREAMBLE

We, the delegates from the various Farmers' Clubs of Michigan in convention assembled, realizing the importance and efficacy of organization in the promotion of ideas and the advancement of measures of general interest and benefit to the agriculturalists of this State, believing that the social, moral, intellectual and financial social, moral, intellectual and mancial condition of the farmers is advanced by local organization of farmers' clubs; and that the organization of other local clubs will be promoted by a central or State association of clubs already in existence, and believing that such an organization would be a valuable means for the interchange of able means for the interchange of ideas and the securing of ends which may be deemed of general benefit to the farmers of this State, do hereby adopt the following constitution and by-laws for the government of such an association. CONSTITUTION.

Article I.—Name.—The organization shall be known as the Michigan State Association of Farmers' Clubs.
Art. II.—Objects.—The objects of this Association shall be as set forth

in the preamble.
Art. III.—Officers.—The officers this Association shall be a president, vice-president, secretary and six directors, whose duties shall be such as usually devolve upon such officers, except that if occasion requires, the secretary shall also perform the duties of treasurer. In case of a vacancy occurring in the office of vice-president, secretary, or board of directors, it shall

Art. IV.—The annual meeting of this Association shall be held in Lan-sing, commencing the second Tuesday

be filled by appointment by the presi-

of December in each year.

Art. V.—The officers of this Association shall be elected at the annual tion shall be elected at the annual meeting by ballot, a majority of all votes cast being necessary for an election. The president, vice-president, and secretary shall be elected for one and one director for one year. year, and one director for one year, two directors for two years, and three directors for three years, and hereafter two directors for three years shall be elected annually. No officer shall be eligible for re-election except the secretary, who may be re-elected by a three-fourths vote of all the delegates present.

present.
Art. VI.—Any Farmers' Club, Art, VI.—Any Farmers' Club, either in or without the State of Michigan, may become a member of this Association by certifying to the secretary its desire and paying a membership fee of one dollar, which fee shall entitle said club to membership, for one club year, which shall be from the close of one annual meeting until the close of the next annual meeting.

BY-LAWS

BY-LAWS.

The officers of this Association

1. The officers of this Association shall constitute an executive committee, the duty of which shall be to prepare a program for the annual meeting and to perform such other duties as may properly devolve upon an executive committee.

2. Each club shall be entitled to send two delegates to the meetings of the Association, who, before being seated, shall present proper credentials.

3. The officers of this Association shall assume the duties of their respective offices immediately upon the close of each annual meeting.

4. The faculty of the Agricultural College shall be admitted to all the privileges of the floor but shall not be entitled to vote.

entitled to

entitled to vote.

5. It shall be the duty of the secretary of the Association, upon application from any Farmers' Club for speakers or instructors on any of the subjects pertaining to the interests of such club, to designate the club, which, in his judgment, may best perform such service. The club, so designated, shall elect from their number a suit-able person or persons to perform such speaker or instructor shall be paid by the club making the application. 6. Amendments.—The constitution

6. Amendments.—The constitution or by-laws may be amended at any annual meeting of the Association. Such amendments shall require a two-thirds

7. A membership fee of one dollar from each club belonging to the Association shall be paid on or before the date of the annual meeting of the Association each year. If any club fail to renew its membership as specified above, it shall be the duty of the secretary to ascertain if such club desires to continue in the Association: sires to continue in the Association if it does not, its name shall be dropped from the roll.

THE COUNTY SALARIES BILL.

HON. A. N. KIMMIS.

I have read carefully the reports from local clubs as published in this department, to discover what criticism would be made of the County Salaries bill in the form in which it passed the House of Representatives. I have reached the conclusion that the discussions have been confined to the principle involved, while the form of the ciple involved, while the form of the bill may not have received the most careful consideration. It is a matter of great satisfaction to me that the principle involved has received unqualified endorsement from the Farmers' Clubs of the State. My name having been so closely identified with the bill, I may be pardoned for calling attention to the fact that the "Kimmis County Salarice Bill" as reprinted in The Farmer. to the fact that the "Kimmis County Salaries Bill" as printed in The Farmer not long ago, is not the bill I introduced in the Legislature of 1897. It was the bill as amended and passed by the

Nearly all legislation is the result of compromise, Few people realize against what forces the friends of the Salaries bill contended for its passage in the House. When we remember the combination of forces that antagonized the bill, it is a matter for congratula-tion that so few concessions were necessary. Those concessions which were necessarily made to the opponents of the measure, were in no instance a surrender of the principle for which we contended. They were, however, of such a nature as to narrow the effect of the bill by limiting the scope of its application.

The annual meeting of the State As-The annual meeting of the State Association is near at hand. It is probable that some action will be taken at that meeting relative to the Salaries bill. If we succeed in securing the enactment of a law that will produce the results aimed at in the Salaries bill, we must present to the Legislature a bill that can be endorsed, both in principle and in form, by every Farmers' Club in and in form, by every Farmers' Club in the State

I have no hesitation in affirming that the County Salaries bill, in the form in which it passed the House, is not such a bill. It seemed best to accept the amendments which were made, bea bill. It seemed best to accept the amendments which were made, because without them the bill could not have passed the House. At the coming session we shall meet a different body of men. Is it not wise to get back to our first position? Let the will of the State Association be made known at State Association be made known at the annual meeting. Let us fight from first to last for the application of business principles in the conduct of public affairs.

The Michigan Farmer.
W TO INTEREST THE YOUNG
PEOPLE IN CLUB WORK. HOW

MRS. C. J. REED.

I have noticed in a large number of clubs a lack of young people, such clubs being composed almost entirely of the middle-aged and elderly. This is not as it should be. If our clubs are to become an important factor in the future of our state and national affairs it is necessary that the young people should be enlisted in their interest and should be enlisted in their interest and become a part of them. The young people of to-day will be the middle-aged of to-morrow, and as the fathers and mothers drop out along the journey of life, who but the sons and daughters can be expected to ably and capably fill their places?
"As we old and wiser grow, Much we'll learn, and much we'll know."
But how is this to be brought about? I have read reports of the discussion of the question, "How can we keep the young people on the farm?" and not infrequently have I heard it discussed.

young people on the farm?" and not in-frequently have I heard it discussed. All this is important. There is no wider field for young, active minds, nor a better supply of good, common sense than can be found upon the farm. Here is the birthplace of our coming representatives and sensetor. representatives and senators, yes, and

governors and presidents.

We would then give as the first essential: Interest them in the farm.

Then let the program committee occa-

sionally arrange questions that will be of interest to the boys and girls, and appoint them to take part in the discussion. This will give them an opportunity of expressing their own ideas and thus expanding their range of thoughts. Let them be appointed to act upon the different committees so that each in turn will have some special work to do.

ial work to do.

If there is musical ability in the club encourage it by requesting those possessing it to form musical clubs, as glee clubs or mandolin clubs, etc., for the benefit of the farmers' club. A club is dry indeed that has not plenty of music.

Make use of the question box often as practicable, and see to it that there are questions which will sharpen the wits of both old and young, and brush the cobwebs from their brains. Have questions of political and national importance, questions of literatur history and art, as well as those which

pertain to farming and the farm.

Now and then some of the young people should have a paper on "Current Events." This would teach them to read carefully and garner that which to read carefully and garner that which is instructive and interesting. Another excellent feature is having quotations at roll call, each member responding to his name with a quotation, giving the author of the same if possible. An original program committee will have little trouble in devising other means of interesting the young people in club work.

would not for a moment detract We would not for a moment detract from the great work the older mem-bers are doing. All honor to them. They have borne the burden in the heat of the day. But we are discussing another of the requisites for perma-nently successful club work. May suc-cess ever attend our clubs as a whole, and may we never less sight of the and may we never lose sight of that for which we are organized—the brst interests of the agricultural class, so-cially, politically and intellectually.

REPORTS FROM LOCAL CLUBS.

MANCELONA AND CUSTER FARMERS'

Mr. and Mrs. A. C. Elder entertained the October club. Owing to the in-clemency of the weather, but few were present. The attendance at the Nopresent. The attendance at the November meeting, with Mr. and Mrs. Wilkes, was large. New officers were elected. Mr. and Mrs. Swan will represent the club at the State Association

E. D. ELDER, Cor. Sec Antrim Co.

CENTRAL FARMERS' CLUB.

Our November meeting was well attended. Topic, "Dairying." Some held to the opinion that there is no profit in keeping more cows than are needed to supply the family with butter and milk, unless one has private customers and can receive better than the general and can receive better than the general and can receive better than the general market price. Others thought that since calves bring so high a price, cows are as profitable as other stock. A communication from the Secretary of State on farm statistics was read. A resolution was adopted favoring the collection of farm statistics. D. G. Locke was elected delegate to the State Locke was elected delegate to the State Association.

COR. SEC. NORTH VERNON FARMERS' CLUB.

NORTH VERNON FARMERS' CLUE.

November club was held with Mr. and Mrs. L. J. Smedley. In opening the Association question, J. J. Patchel said railroads should not be favored any longer. Did not favor local taxation. Said that if we did not this time elect right men to the Legislature all will be lost and perhaps forever. time elect right men to the Legislature all will be lost, and perhaps forever. A. L. Chambers favors local taxation. After discussion, delegates were appointed to act with the South Vernon Club to secure free mail delivery. Mr. and Mrs. T. Cooling were elected delegates to the State Association.

STELLA DAVENPORT, Cor. Sec. Shiawassee Co.

WALES FARMERS' CLUB.

Club met with Mr. George Gregs. The Association question was opened by reading from The Michigan Farmer by reading from The Michigan Farmer an editorial on the subject, and those who do not take The Farmer were surprised at the great work of the State Association. Henry Maurer was appointed delegate to the annual meeting. Both representative nominees favored the Kimmis bill, but Mr. Kingott would include the sheriff in the list of salaried officers.

MRS. ALBERT HAND, Cor. Sec.

St. Clair Co.

ARGENTINE FARMERS CLUB.

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ARGENTINE FARMERS CLUB.

Club met with Mr. and Mrs. E. hagan. Principal topic, "Ought our in-terests to be looked after at the next session of the Legislature in regard to the taxation of railroads and other cor-porations, and, if so, what would be the best method?" J. C. Laing, in opening, thought that so long as railroads send men there to look after their interests, we should do the same. After for discussion the following was adopted: Resolved, That we are in favor of railroads and other corporations being assessed at their actual value, or equal with other property; and furthermore, that the State Convention elect a delegation to look after the passage of such a bill at the next session of the Legislature. In the discussion of the Association question, all seemed very much in favor of the passage of the Atkinson bill.

Genesee Co. EDWIN PRATT, Cor. Sec. UNION OF MUSSEY FARMERS' CLUB.

A good membership was present at the beauty of Merkey West Neverbor 2.

A good membership was present at the home of Martin Went, November 3.

the home of Martin Went, November 3. The Association topic was so ably presented by A. Tosch in a paper, that he and Ida Tosch were elected to represent the club at the State Association. After a speech by the president in favor of the County Salaries bill, a resolution was adopted endorsing both the Atkinson and Kimmis bills. A highly interesting question how was enjoyed resting question box was enjoyed

RHODA M. MATTESON, Cor. Sec. St. Clair Co.

by all.

RHODA M. MATTESON, Cor. Sec. St. Clair Co.

RICHMOND AND RILEY FARMERS' CLUB.

Mr. and Mrs. L. Hawes entertained the November club. Topic, "What is the present trend of thought in regard to farm life?" Mr. Dunn said, in business a 7 per cent profit is considered good. Some farmers do better than that, but got all. The Agricultural College is a grand place to educate farmers' children. Mr. Gilbert: Farm life is no longer considered one of drudgery. Farm boys are wanted in the professions because their minds are more comprehensive. Rev. Jennings: Farmers are generally better informed. There is a better feeling among them than formerly. Club favors the Kimmis salaries bill.

St. Clair Co. A. H. STEPHENS, Cor. Sec. WASHINGTON FARMERS' CLUB.

Mr. and Mrs. E. Lamb entertained the last club. The club favors the Kimmis county salaries bill. Different expressions of members are: Reduce the income from county offices to that of private business, or to that of farmers. This will reduce the temptation to blow in a lot of money on election. The members are divided on supporting farmers' institutes by tax. Some claim that it is centrary to our princi-

ing farmers' institutes by tax. Some claim that it is contrary to our principles; others that it is for the education of the farmers of the State, who are as much entitled to the same as lawyers, doctors etc.

doctors, etc.
All approve the equal taxation meas an approve the equal taxation measure. Tax according to value, and not upon receipts; or else tax farmers and all others the same, on their profits. The sentiment is general that it would be vastly better for farmers to have freight rates lowered than passenger rates.

All opposed free text-books, but upon the question of uniform text-books opinions differed.

Delegates to the State Association, Wm. H. Norton and Wm. Bishop.

Wm. H. Norton and Wm. Bishop.

SPRINGPORT FARMERS' CLUB.
Club was held at the home of Mrs.
C. A. Whitman. Quotations of thanksgiving sentiment were given. Mr. Joy
read an article on "Abstract Books of
Jackson Co.," and explained the abstract business. In the discussion, A.
L. Landon favored county ownership.
Others agreed, and a resolution was
adopted instructing the board of supervisors to confer with the register of
deeds for the purpose of getting out a
new set of abstract books, to be owned
by the county; and said register of
deeds to be paid a just compensation
for the making of the abstracts. In
the discussion of the State Association
it was thought to be of great advanthe discussion of the State Association it was thought to be of great advantage, giving a chance to bring our wants more directly before the legislature. Mr. and Mrs. B. A. Joy were elected delegates to the Association A very interesting program has been arranged for the next meeting, on Dec. 17, at the home of Mr. and Mrs. A. L. Landon.

ADA WELLINGTON, Cor. Sec.

ADA WELLINGTON, Cor. Sec Jackson Co.
WHITE LAKE FARMERS' CLUB.

WHITE LAKE FARMERS' CLUB.

At the meeting with Mr. and Mrs.
Welch resolutions were adopted in respect to our deceased brother, B. H.
Clark. Delegates to the State Association, Mr. and Mrs. R. D. Hubbard; to the County Association, R. D. Hubbard and W. E. Clark. A committee appointed to interview candidates for the legislature reported every candidate solid to the core in regard to serving the farmers. In the discussion of the local question, W. E. Clark thought agriculture had been well recognized in the creation of the Department of Agriculture. We need more confi-

dence in one another. We are too apt to compare the average farmer with the marked success in other callings. Should embrace every opportunity to improve ourselves intellectually, prac-tice speaking in public for discipline, and especially encourage our young and especially encourage our young people to do so. E. P. Flower: Better remuneration would increase the dignity of the farmer's calling. Proper legislation would assist. Too many millionaires in the U. S. senate to expect reforms in legislation. Better elect them by popular vote. Give us a high protective tariff. Prohibit dealelect them by popular vote. Give high protective tariff. Prohibit ing in agricultural options. R high protective tariff. Prohibit d ing in agricultural options. Red the legal rate of interest to four cent. Give us free coinage of sil' Others thought the great drawbach Reduce the advancement and recognition of the farmers is the lack of education the farmers is the lack of education, along public lines especially. Intelligence is the standard by which our standing is and must be judged. If we would improve all the opportunities and privileges which are ours to enjoy we would rise to some extent in the estimation of the world.

Oakland Co. COR. SEC.

WOODSTOCK FARMERS' CLUB

WOODSTOCK FARMERS' CLUE.

Last meeting with Mr. and Mrs. E.
Hollands. Thos. Beal was elected Association delegate, the club to pay the expenses. In the discussion of the Association question several extracts from The Farmer articles were read. A general discussion prevailed. Both the Kimmis and Atkinson bills were heartily endorsed. A Christmas program will be given and a Christmas dinner served at the December 17 meeting, with Mr. and Mrs. Melvin Crane.

MRS. J. H. TRUMBELL, Reporter.

Lenawee Co.

LIBERTY FARMERS' CLUB.

Alonzo and Miss Annis Vicary entertained the November club. Mr. Edwards brought up the county abstract question and it was referred to a committee to be acted upon at the next meeting. Mr. Edwards reported that both candidates for representative had pledged themselves for the Kimmis and Atkinson bills, that Mr. Sharp had virtually pledged himself to the Kimmis bill but would not express himself regarding the Atkinson bill. The other candidate for senator had not even replied. The Association question was thoroughly discussed, all agreeing that railroad property should be taxed as other property, and that the free pass evil should be abolished by a firm hand.

Mrs. H. D. Wetherby, in her paper LIBERTY FARMERS' CLUB.

the free pass evil should be abolished by a firm hand.

Mrs. H. D. Wetherby, in her paper on "Style and Style," was, as usual, both witty and sensible. Among other things she said: I know you men generally sniff at style; but wait, I've got you, for at our last club in discussing county officers' salaries one of our sensible men said the salaries should recognize the fact that these officers must live in better style than we do.

MRS. J. D. CRISPELL, Reporter.

Jøckson CO.

GENOA FARMERS' CLUB

GENOA FARMERS' CLUB.

Club met at the home of Mr. and Mrs. L. W. Fitch. Mr. Metz's paper on "How to Keep an Interest in the Club," brought out a lively discussion. Assign a practical subject to some person to open the discussion, and then have each member take part in the after discussion. Diverse opinions were expressed on this paper. Many thought it not best to expect to do too much at a single meeting. L. W. Fitch and C. Sweet were elected delegates to the State Association. Messrs. Dunning, Haller, Woodworth and Lawson to the County Association.

MRS. M. E. DUNNING, Cor. Sec. Livingston Co.

WEST AVON FARMERS' CLUB.

WEST AVON FARMERS' CLUB. WEST AVON FARMERS' CLUB.
Club met with Mr. and Mrs. L. C.
Flummerfelt. Messrs. Wm. Fisher
and Frank Dutton were elected delegates to the County Association, and
brought back a favorable report of the
meeting. L. C. Flummerfelt gave a
good talk on the work of the State Association. B. J. Fuller was elected
delegate to the same. In the discusdelegate to the same. In the discussion of the question, "Which pays better, potatoes at 25 cents or wheat at 60 cents?" it was generally agreed that potatoes stood the best show unless a man was handicapped by being too far from market.

E. A. TUCKER, Cor. Sec GRASS LAKE FARMERS' CLUB.

GRASS LAKE FARMERS CLUB.
Mr. and Mrs. Frank Dwelle were elected delegates to the State Association. A general Thanksgiving program was rendered. The history of "Thanksgiving" was finely given by Mrs. Jane Taylor. We, who live in this now enlightened country, wonder what they had in the early days to be thankful for, on that bleak New Eng-

land coast. Although many of them had died from sickness, want and treachery of the Indians, yet they still trusted in that God whom they had come so far to worship according to the dictates of their own conscience. Of all our National holidays the Fourth of all our National holidays the Fourth of July and Thanksgiving lie nearest to the nation's heart. How thankful we as a nation should be at the termination of cruel war. We who live in this immediate section should be thankful that we live in the most prosperous part of the prosperous State of Michigan.

MRS, GEORGE FERGUSON, Reporter. son Co.

MARION FARMERS' CLUB.

MARION FARMERS CLUB.
Mr. and Mrs. F. E. Backus entertained the November club. The County Farmers' Institute question came up for discussion, as there is decided opposition on the part of some of the State officers to holding the County Institute again at Howell. The reasons may seem plausible enough to an out-sider, but in view of the fact that Howell is the county seat and is cen-trally located, the sentiment among our members is unanimous that under any and all circumstances the Coun A vote of confidence was also given to any action the county executives of the institute might take in the matter. F. E. Backus and L. K. Beach were elected delegates to the State Associa-tion and Messrs, Norton and Padley and their wives to the County Associ-



CONDUCTED BY DR. W. C. FAIR.

Advice through this department is free to our subscribers. Each communication should state history and symptoms of the case fully, also name and address of the writer. The initials will only be given. When an answer is requested by mail it becomes private practice, and a fee of one dollar must accompany the letter.

Cough.-A road horse has a cough. J. W., Monroe, Mich.—Give one dram fluid extract wild cherry and half an ounce fluid extract licorice twice a day until he gets well.

Worms.—Young horse passes worms.
He is thin, hair long and rough. I feed him more than a horse of his weight should have. W. K., Lansing, Mich.—Give one dram powdered sulphate of iron and two drams ground gentian twice a day in feed.

twice a day in feed.

Heifer Calved too Soon.—Heifer came in before she was due and lost her calf. Has not drained. C. L. W., Tipton, Mich.—Remove afterbirth by hand and inject her with a solution of carbolic acid, one part to one hundred parts tepid water, twice a day for a few days. Give her fifteen grains quinine three times a day for ten days. Keep her bowels open.

Cow Gives Bloody Milk.—Wy cow

Keep her bowels open.

Cow Gives Bloody Milk.—My cow gives bloody milk from one teat. Have tried several remedies without benefit. J. W., St. Clair, Mich.—Blows on the udder or commencing inflammation from any other cause, heat or "rut," a sudden accession of rich food causing local congestion with increased flow of milk, are all causes. Be sure and give her a soft bed to lie on. If the udder is much inflamed give one pound of epsom salts, one dose only. Bathe the affected quarter with cold water. Milk carefully and gently.

Parturient Fever.—Two of my cows

Parturient Fever.—Two of my cows died. They were in good health. Calved all right, cleaned nicely and the calves ran with them two days. A few days later they lost the use of hind quarters and soon died. Stomach of few days later they lost the use of hind quarters and soon died. Stomach of one was clogged and milk dried up. E. W., Colon, Mich.—Both cows died the result of parturient fever. You overfed them before and after calving. Had you dieted them and given saline cathartics before and after calving I think you could have saved them both.

think you could have saved them both.

Cow Gives Bitter Milk.—Cow's milk has a bitter taste and an offensive odor after standing a short time. Cow has good feed and is well stabled; due to calve March next. A. S., Chesline, Mich.—Your cow's milk may absorb some vegetable poison after it is milked. If your cow is healthy her milk should be normal. Examine sewerage and ventilation and disinfect stables and milk house. Notice that no bad smelling substance is near milk, etc.

Wound .- A colt got cut on barbed wire and it has left a bunch on fet-lock joint. The fungus bleeds and has not healed perfectly. J. H. L., Wil-liamston, Mich.—Burn wound with a red hot iron until center of fungus is lower than edges of skin. It is not possible for a wound to heal perfectly if a fungus is allowed to fill in between edges of skin and raise much above the level of skin. Also apply equal parts tannic acid, oxide zinc and calculated to wound twice a draw calomel to wound twice a day.

Inverted Vagina.—Heifer's womb became displaced when she calved. She was treated for trouble and apparently recovered. She is due to calve in March. Is there danger of her having similar trouble this time? E. W., K., similar trouble this time? E. W., K., Tomahawk, Wis.—Keep her bowels open and elevate the rear part of stall so that her hind quarters will be three inches higher than front quarters. It will be wise to purge her before calving, and would advise keeping a surcingle around flank for a few days after calving. Keep her in the specially prepared stall for some time after calving.

Congestion of Lungs—Pneumonia—

after calving.

Congestion of Lungs—Pneumonia.—
Two of my "long wool" lambs died in field; three more not able to stand up and a number of the others sick. They were feverish; a heavy discharge from nose; quick breathing; walk with great difficulty. I opened every one of the dead lambs and found their lungs dark colored and full of blood; other organs all right. I now keep them up. F. E. M., Springport, Mich.—Your lambs died of lung disease brought on from exposure. I do not think you will lose any more if they are kept in a sheltered place, warm and well ventilated. More can be done to prevent the disease than by medication afterwards.

Cooking For Live Stock.

The cooking of food is in reality the first step in digestion. It means that cooked food is more easily digested and more readily assimilated—converted into blood, viscera, flesh fibre, milk, etc., by the animal economy. As all food is just so much fuel fed to the animal to be burned up and consumed by the process of digestion, 'ne feeding of warm cooked food means the saving of a large amount of fuel—food.

A good machine for that purpose is the Electric Feed Cooker made by the Electric Wheel Co., of Quincy, Ill., whose ad. appears on another page of this issue. The cooker which we show herewith is made in several convenient sizes ranging from 25 to 100 gallons capacity. The base is composed of the best of cast from and the furnace is lined with steel plates effectually preventing all warping or burning. The boiler is made from best gaivaning disease with will not rust or corrode in any way. Write the Electric Wheel Co., for price list and circulars before buying a cooker of any kind.

Needed on Every Farm.

Needed on Every Farm.

The Dain Double-geared Mill grinds any kind of grain as easily and quickly as any other mill on the market, being so constructed that the inside burr revolves twice to one revolution of the sweep. The pressure between the burrs in grinding is carried on chilled roller bearings, reducing friction to the minimum and doubling the quantity of grist with the usual draft. Send your name and address for circulars and illustrations to Dain Mfg. Co., Carrollton, Mo.

Incubation Without Moisture

Incubation Without Moisture.

Among the most successful in the incubator line is the Cyphers "No moisture—no ventilating pan" incubator. In this incubator a scheme for radiating the heat with the most thorough distribution and equalization of it is employed, and without the necessity of providing a moisture supply. Their large manufactory is thoroughly equipped and specially built for the manufacture of incubators and brooders and machinery especially adapted for the purpose is found in every part of it.

The Cyphers Company is located in Wayland, N. Y. Their new catalogue is a remarkably handsome book and should be owned and read by every poultryman. They send it for ioc. in stamps.

NEED A SAFE



To Keep Valuables and Papers In as a Protection Against Fire and Burglars.

Our No. 4 Victor Safe has improved combion lock on outer door, also inside door with lock. Inside dimensions 19x14x12² increight, 300 pounds; regular price, \$60.00;

tion lock on outer the control of th

Horticultural.

For The Michigan Farmer. YOUNG TREES FROM THE NURS-ERY.

Very few fruit trees are transplanted from the nursery to the orchard without receiving some sharp set-back. I can remember the time when it was generally expected that out of every lot thus transplanted a fair percentage of them would die, and another percentage would drag along an uncertain existence for several years. But as the requirements of nursery trees, and the art of transplanting them, beand the art of transplanting them, be and the art of transplanting them, be-came better understood this amount of loss was materially decreased. It is now becoming more and more the pre-vailing opinion that there need be no loss at all, and that in the near future such will be the case. This, of course, presupposes great skill and care on the part of the shipper as well as the re-ceiver.

A good part of the young trees arrive at their destination in poor condition for planting. This is sometimes due to the fault of the shipping companies. However, until both the nurserymen However, until both the nurserymen and transportation companies can be made to do better, the purchaser must try to make up for their ignorance or carelessness by special labor and treatment. Trees shipped from warmer latitudes to colder are more apt to arrive in poor condition for planting than others. These trees were probably heeled in, but the climate was so mild that they started to grow before they reached their destination. The best treatment that can be accorded to such trees is to get them into good soil as soon as possible, and without disturbsoon as possible, and without disturbing the new, white, hairy roots or fibers. The dead-like roots should be cut back to live roots. If the white fibers. The dead-like roots should be cut back to live roots. If the white fibrous roots are not injured they can be made to grow at once in soil that is thoroughly watered. I have received trees from the South early in the spring in this condition, and they were planted so carefully that the buds that had started on them made a satisfactory growth the same season.

The cutting back of the trees before planting is one of the best ways to pro-

The cutting back of the trees before planting is one of the best ways to protect young ones that do not appear very thrifty when received. I have cut them back two-thirds—almost cutting the tree down—and the trees did better for this severe treatment. In time they will grow faster, and produce better trees, than those what arrive in poor condition, and for the sake of saving the growth already attained are not cut back much.

Minnesota.

A. B. BARRETT.

MULCHING STRAWBERRIES

"Under no circumstances must strawberries be mulched until the ground freezes hard. Plants continue to grow ever day until the roots are frozen, and they cannot assimilate their food without sunlight. If cov-

frozen, and they cannot assimilate their food without sunlight. If covered with straw now they would turn white in a week."—R. M. Kellogg, in Michigan Fruit Grower of October 28. This advice of friend Kellogg's is undoubtedly good, and perhans a person would lose nothing and gain much by following it; yet our experience has proven that strawberries may be successfully mulched before the ground is frozen hard, provided it is done in the right manner. About as successful a job of mulching as I ever did was done before the ground was frozen and while the leaves were yet green. At what time this mulch was applied I can not say as I have no data of the work done; however, I should judge that it was applied about November 1st. Some time after I had completed this job, when the leaves of plants not protected had become dried and withered by freezing and thawing, a neighbor fruit grower happened to call on me and as usual we went out to look at my strawberry beds. Upon removing the mulch we found that the plants looked just as fresh and green as when they first were covered. My friend said his vines were dead and that he wished he had got them covered before. The year following this I mulched before vines were dead and that he wished he had got them covered before. The year following this I mulched before it froze up and with as good success. This time for some reason or other I threw the material off into piles, and it was some time before I got around to spread it, perhaps a month or more. Now I expected to find the plants directly under these piles injured, but contrary to my expectations they looked to be just as healthy, or even

more so, than those that had not been mulched. However, these were mulched later in the season than the patch of the year before; snow fell the next day after drawing on the mulch, and was just going off when I finished spreading, some time in February I think. Perhaps if I had applied this mulch two or three weeks earlier I would not have been as successful; but taking the conditions as they were I do not think I could have bettered the job. Both of the seasons here mentioned I used marsh hay for mulch and this is one of the best, if not the best mulch that can be used; it is coarse, and does not pack down like some other materials, thus admitting plenty of air although keeping out all sunlight. It is our opinion that it is not necessary for the ground to be frozen before applying the mulch, providing it is not earlier than November 10. For the past week we have been having those freezing nights and thawing daytimes that must prove injurious to those roots that lie near the surface, and whether this freezing and thawing comes in November and December or in March and April, I would rather my plants were covered. We have comes in November and December or in March and April, I would rather my plants were covered. We have not applied a mulch to our beds as yet. November 17, except to draw on and spread four loads of manure. This we intend more as a fertilizer than a mulch, yet it will answer this purpose until such time as we may be able to draw on straw. We shall finish drawing on the manure as soon as the ground is frozen sufficiently to bear the weight of team and wagon, and finish with the straw as is convenient. convenient.

convenient.

Perhaps friend Kellogg did not mean that the mulch should not be applied until the ground freezes hard,—to stay frozen. We do not think he did, for this rule would not work very well in those winters when it is freeze and thaw the entire winter through.

No set rule can be given for applying a mulch to strawberries, but we think it is safe to assume that when the time of the year comes when the leaves should naturally become dormant, the mulch may be applied.

mant, the mulch may be applied. St. Clair Co., Mich. M. N. EDGERTON.

FORESTRY IN THE UNITED STATES.

The new method of forestry work of the Division of Forestry of the Agricultural Department, as outlined re-cently by the Forester, Mr. Gifford Pinchot, has awakened considerable cently by the Forester, Mr. Gifford Pinchot, has awakened considerable interest and bids fair to bear some practical results. Mr. Pinchot proposes to arrange with parties owning woodland to manage their timber for them, showing them how it is ing woodland to manage their timber for them, showing them how it is practicable to market the timber profitably and at the same time preserve the identity and value of the forest. This will be done without cost to the land owner and without pecuniary benefit to the Department. Mr. Pinchot assumes that the commercial lumbermen have reduced their methods to such a system that it becomes lumbermen have reduced their methods to such a system that it becomes very difficult to improve on them from a money-making standpoint, but he proposes to show that whereas woodland, after they have "cut it" is practically worthless, by the expenditure of a slight sum per acre, a good second growth of valuable timber will be insured. Much interest is felt in his ond growth of valuable timber will be insured. Much interest is felt in his scheme and he already has arrange-ments made with private parties to operate on over seven hundred thou-sand acres of woodland. One hundred thousand acres of this is in the Adithousand acres of this is in the Adirondacks where an opportunity for a very fine object lesson is presented. At present it is not possible to cut the hard wood there and market it profitably; only the spruce is cut by the lumbermen. In cutting this species, however, such small trees are taken and such large areas left entirely blank of spruce that the succeeding second growth becomes very inamerent. Mr. Pinchot proposes in cutting over an acre to leave enough of the minimum sized trees marketable to act as seed trees and also to leave single trees standing in areas where there are no young trees; this he claims can be done at a cost, or rather loss of only six or eight cents per

claims can be done at a cost, or rather loss of only six or eight cents per acre, while the identity of the species will be maintained in the forest, leaving it much more valuable.

Mr. Pinchot believes there is much room for good work along the lines of studying forest fires, their cause and effect. They largely affect the succeeding growth by killing the species and burning up seed. In most sections, if not everywhere, he believes it

possible with proper State regulations and good organization to successfully fight fires. Without organization fires are uncontrollable. He has studied the forest fires in parts of New Jersey where great areas have been literally burnt out. Fire always runs along in waves, throwing out spurs. The fighting and back-firing should be done in front of these spurs when the back stretches can be more easily dealt with. He finds the people of New Jersey fighting the back stretch first and straight to catch up with the spurs instead of going in front of them. The Forestry Division has active, aggressive work ahead for the coming year and the chief's motto is to make his experiments and examples practical, experiments and examples practical, so that when put into operation by the forest owner, they will have an actual cash valuation.

HORTICULTURAL NOTES.

Toads should never be destroyed. They live on insects, snapping them up during the warm months by the hundred.

Looking for borers in the apple or-chard once a year is once too seldom. During a period of six months these grubs will do great damage; the or-chard should be thoroughly examined twice a year.

In an article in the Forum the chief In an article in the Forum the chier entomologist of the United States Department of Agriculture estimated the annual losses from Insects in the United States at \$200,000,000. We doubt this, If the insects had not destroyed tons of fruit the price of much of it would have been too low to pay for picking and marketing. Those who fought the insects successfully got much more for their fruit than if the insects had not destroyed the crop of those who did not fight them.

of those who did not fight them.

J. H. Hale, the great peach grower, says he gets peaches two weeks earlier by the following method: In the middle of the growing season put a strong wire around a large arm of a tree and twist it fairly tight. This checks the flow of sap and causes fruit buds to form early and in great number. The fruit on the branches of this arm will ripen two weeks earlier than that on the untreated branches and will be much more highly colored. But this part of the tree will be so weakened by the treatment that it should be cut away after fruiting that new shoots may come and take its place. Thus one large arm or limb of a tree may be forced each year.

John A. Barnes, United States Cen-

John A. Barnes, United States Consul at Cologne, through the State Department, has, at the request of leading German merchants in American ing German merchants in American dried fruits, notified shippers in this country as to the absolute necessity upon their part of abstaining from the use of sulphurous acid or any other questionable preparation, for a persistence in or continuation of this practice will undoubtedly result in the entire ence in or continuation of this practice will undoubtedly result in the entire expulsion of such fruits from the German markets. Herman Fettwies, a prominent German importer, who last year disposed of over 100,000 marks' worth of apricots alone, was recently cited to appear before the authorities of Neweld to account for the evidence of the use of sulphurous acid in a line of apricots there sold of apricots there sold.

The government of New Zealand is pursuing in part exactly the policy which the officials of the Department of Agriculture insist should be enforced in Hawaii, Porto Rico, and any other island possessions which may come within the jurisdiction of the United States, but are now in danger of being overrun with noxious weeds, and plant diseases, through ignorant and careless importations. The governor of New Zealand has issued a proclamation stating that whereas it has appeared to his satisfaction that fruit trees and plants infested with various species of scale insects have been and are still imported into New Zealand to the danger and detriment of the fruit plantations of the country, the importation is absolutely prohibited of any trees or plants, including cuttings, buds, etc., affected with ited of any trees or plants, including cuttings, buds, etc., affected with scale insects. To enable thorough concuttings, buds, etc., affected with scale insects. To enable thorough con-trol of the inspection necessary the ports of Auckland and Wellington are designated as the only two ports for such importations.

such importations.

A fruit which is likely to find its way into American markets since the tropical war, is the alligator pear, or, as the Spaniards and Cubans call it, Aguacate. The tree is very susceptible to frosts and has been nipped down time and again in Florida, where otherwise it does well. The Fruit Division of the Department of Agriculture has recently received a large amount of seed from Mexican trees which have been known to fruit after a temperature considerably belarge amount of seed from Mexican trees which have been known to fruit after a temperature considerably below the freezing point, and will distribute them to South Florida and Southern California where this fruit has been tried. While the demand is not large, fancy prices are obtained from naval efficers and others who have visited foreign lands and become fond of this fruit. In Washington these pears retail at 25 and 30 cents each. The fruit is totally unlike anything growing in the temperate zone and seems to be as much a vegetable as fruit, being used for salads. It has a peculiar flavor which is usually not liked at first, but the fondness for it becomes almost a mania with many travelers. The writer has eaten it in Florida and Nicaragua and believes there is no fruit in his estimation over which it does not take precedence. It is like a pear only in general shape, so says our Washington correspondent.

MR. ALFRED AUSTIN, Lord Tennyson's successor in the laureateship of England, will contribute to the next volume of The Youth's Companion a poem based on an extremely dramatic and picturesque legend, which is singularly suited for recitation. The story itself is full of interest and color, and the metre is so fluent that even a child can recite the verses with ease and effect.

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ORNAMENTAL TREES AND SHRUBS THE STORRS & HARRISON CO., Box 55 PAINESVILLE, OHIO.

(g)

Che Dairy.

Conducted by J. H. Brown. Every reader of ne Michigan Farmer, who is 'interested in lity matters, is earnestly invited to frequently nitribute to this department. Send all dairy grrespondence to Battle Creek, Mich.

SOME COW GOSSIP

I have recently become quite interested in experimenting with a couple of cows which I possess. One is a high grade Jersey, her sire being a reg-

high grade Jersey, her sire being a registered Jersey bull of St. Lambert lineage and the dam a high grade and a very excellent cow which had eight calves and never went dry a day in ten years. The other cow is a l-ulf sister, but her sire was a Holstein of excellent breeding. Her milk is about equal in quantity to the other, but is not as rich as that of the Jersey.

These cows both came in before they were two years old, and have had but one calf apiece. One is now milking for the fifth winter and the other has about completed four years of giving milk continuously. They have very rarely missed a milking through any mischance, but for three years, up to about September 1 just passed, they were milked but once a day, as I did not wish to milk myself, and my son, who milked, could not be tied down to always being at home at milking time at night; besides I am more often gone at that hour in summer than at home.

About September 1 I was temporarily without a housekeeper, and suggested to my neighbor, who makes

rily without a housekeeper, and suggested to my neighbor, who makes fancy butter and was short of milk, that he take my milk and pay what he could afford to until we could once more make use of it at home. He accepted the offer and in this way I come cepted the offer and in this way I came to weigh the milk and know something about it.

about it.

On the 7th of the month my oldest son left to enter the State University and the milking lay between myself and younger son, eleven years old, who had never milked. In order that the cows' bags would not be so hard and full for the boy to milk we began to milk twice a day. After the change the cows gave from two to three pounds more daily than before, the yield being from twenty-four to twenty-seven pounds daily, according to who milked.

I went to market five days each

to who milked.

I went to market five days each week, going at 4 a. m., so the little boy milked, and sometimes at night when I was very busy. Sundays and Mondays I milked to give him a rest, as it was quite hard work to him, apparently, and we noticed that on Monday, after I had milked the day before, that the cows increased their flow about three pounds.

pounds.

After the middle of October I could milk all the time, and I began to become interested in bringing the cows back to their August flow. In the mixed milking and neglect of the thirty previous days they had fallen off to less than twenty pounds daily. By October 30 I had got them back and a little more, and the amount given in thirty days, from October 30, is six hundred and ninety-four pounds. Adding half a day to make an average month, would make an annual yield of 8,400 pounds of more than ordinarily rich would make an annual yield of 8,400 pounds of more than ordinarily rich milk for two small cows which calved four and five years ago. Whether they will do this I cannot say. All I know is that in June and July they filled to the brim a thirty-pound pail, while in February and March, upon dry corastalks and hay, without other messing than a peck of turnips daily, they fell below ten pounds.

During the time my cows were gaining, my neighbor's cows were constant-

During the time my cows were gaining, my neighbor's cows were constantly shrinking, and to show that it was not all caused by strippers drying off, is the fact that since he shut them up and has been feeding ensilage and mill feed in a warm stable, they have gained in a week nearly all they shrunk in three weeks. This morning I received notice that if their cows continued to improve they would not event treedved notice that if their cows continued to improve they would not need my milk after December 1. I believe with proper care through October and November his herd of sixteen cows night have produced the 1,300 pounds of milk he paid me 80 cents a hundred

Both his cows and mine were in good pasture, but I had a large lot of sweet-corn nubbins and I fed a heaping peck measure twice a day to the two. He tried feeding ensilage at night, and I tried bright corn fodder, but the cows would not eat while the weather re-

mained warm, as it was until November 22. From the middle of October until November 22 my cows had a crate of cabbage leaves daily with "busted" heads and second-growth loose heads from those cut in July. Of the latter I had three thousand heads, so I had an abundance and could feed as freely as I dare. as I dare.

as I dare.

The crate held a bushel and one-half of potatoes, and the cabbage was trampled in solid so the cows consumed about 75 pounds of eabbage daily, and it was impossible to detect any odor or taste of cabbage in the milk. One morning, through my neglect any odor or taste of cabbage in the milk. One morning, through my neglect to tell my boy, they got a double portion, which I did not know about until after feeding at night, and I feared bad results, but could not detect any, I now believe that if a cow is fed immediately after milking, that 50 or 60 pounds daily may be fed without tainting the cream, and that, considering the cheapness with which cabbages can be grown, it certainly would pay milk producers who retail their milk to grow a patch for fall feeding. Whether it would do to feed heavily to an entire herd of butter cows I cannot say from any experience of my own.

There was still another reason wny my cows did better than my neighbor's after the middle of October, and that was I sheltered them every night, and

after the middle of October, and that was I sheltered them every night, and on stormy days let them out only three or four hours. A cow will stand about that much duration of storm without suffering, if she is then put in a warm stable where she can dry off without chilling. Put a cow out in the rain for all day and perhaps all night and she suffers severely in cold autumn storms, and it very soon registers a loss in the milk pail.

As regards keeping them up at night,

and it very soon registers a loss in the milk pail.

As regards keeping them up at night, I cannot see the desirability of chasing all over a pasture before dawn in a frosty October night to find the cows. It is after dark when they are turned out at night and the cows do nothing but hunt a sheltered spot to lie down where they are found in the morning. In driving to the stable they empty themselves of both liquid and solid substances which might much better be left in the stable and made to contribute to the manure heap which, at best, is always too small. I might add that the cows have gained steadily in flesh for the last three months and are nearly fat enough for beef. They have flesh for the last three months and are nearly fat enough for beef. They have enormous appetites, and since I shut them up, they get away with a large amount of bright corn fodder.

I am agreeably disappointed in their production since winter set in (seven days ago), and they have had no grass and only four crates of cabbages. I appeared a covery shrinkage but in the

days ago), and they have had no grass and only four crates of cabbages. I expected a severe shrinkage but in the seven days it has only been four pounds, and part of this may be attributed to the fact that one cow was in heat, and she always shrinks some during that the rorled.

heat and she always shrinks some during that period.

I have thought each year I would fatten these cows on grass and dispose of them, but I think so much of their race, and they come back so nicely to a full flow of milk, that I have not done so. Besides I have been hoping against hope that I might get some calves to continue the strain.

I have about given this up, as the black one does not come in heat at all, as I can see, and the other one does not breed, although coming in heat regularly every twenty-one days. She goes nearly crazy at such times, but repeated service from several different bulls has accomplished nothing up to date.

Now, Friend Brown, I have written Now, Friend Brown, I have written you a long letter, and all I have written is solid fact. There are several morals to be gotten out of it, besides the curious truth that some cows do not have to have a calf every year to be pretty fair milkers. The morals are, that experienced bindly milking shelter from

fair milkers. The morals are, that experienced, kindly milking, shelter from autumn storms and frosty nights, and good messing, with some appetizing food when the pastures become short or frosted, gives good and quick returns in the milk pall.

Summit Co., Ohio.

(These cows are exceptional, in that they have given a generous quantity of milk for four or more years without calving. We have heard of this being done in the case of spayed heifers or cows. Who else has had such an experience? perience?

It is somewhat unusual for cows to return to, much less exceed, their original flow after such irregular milking and feeding, especially when so far along in lactation as these two cows

We would much prefer the sweet corn fodder, with a few roots added

later in the fall for succulence, than to feed cabbage. Keep that cow by herself a few times when in heat, away from other stock, then allow a single service. Report in due time.—Ed.)

For The Michigan Farmer, THREE ESSENTIAL CONDITIONS

In your issue of November 19, you invite your brother farmers to write of their method of caring for the dairy. their method of caring for the dairy. There are three things that go to make up a profitable dairy herd. Individual merit, feed and care, and the kind of care they receive has a great deal to do with it.

You ask, "Do you keep your cows in the stable during the cold stormy nights?" Most certainly we do. Our cows never lie out of doors ever night.

nights?" Most certainly we do. Our cows never lie out of doors over night, summer or winter. You will find them at night lying comfortably in their stalls.

Our stable is well ventilated and the

Our stable is well ventilated and the cows are well bedded all of the time. In that way we make, even during the summer months, quite an amount of valuable manure.

In the early fall we keep watch of the weather, and if there comes a cold windy day we keep the cows in most of the day. I remember one day this fall my hired man and myself were picking up potatoes. It was rather cold and windy. The cows had been turned out at noon and the gate being open they all went for the pasture. I felt rather uneasy about them, and finopen they all went for the pasture. I felt rather uneasy about them, and finally said: "Mike, we are losing money every minute those cows are out in this wind." I went right away and drove them to the barn and put them in. They were very willing to go in, although the feed in the pasture was good.

As I sit writing tonight there is a howling blizzard outside, but my cows and calves are just as comfortable in the stable as I am sitting here in the house.

WATERING

WATERING.

In summer our cows drink from the tank in the yard, fed from a ten-barrel tank by the horse barn. In winter they are watered in the stall with a pail, water coming from an elevated tank in the loft of the main barn through pipes to the head of the cow mangers. To my mind this is far ahead of watering in the yard during the winter.

water watered twice each day, and as they stand waiting for their turn there is nothing else to attract their attention. They drink, from a clean pail, water that comes fresh from a clean tank. As milk is over 89 per cent water, in my estimation it is quite an item to get a cow to drink heartily twice each day. How nice it is in a day like this, with the wind blowing a gale and the snow flying through the air, to have water in the warm barn, instead of compelling the cows to go out in the storm.

FEED.

This winter we are feeding corn stover, cut by a feed cutter run by a twelve-foot power windmill, and all that they will eat up clean of clover that they will eat up clean of clover hay at noon. For grain we feed corn meal (corn ground by same mill) about four pounds; of wheat bran three pounds and of gluten feed three pounds. Some get more and some get less, but that is the proportion.

The milk is run through a cream senarator having a capacity of 400

The milk is run through a cream separator having a capacity of 400 pounds per hour. The cream is made into butter and sold to private customers in Grand Rapids, at 20 cents per pound the year round.

Ottawa Co., Mich. F. M. LUTHER. (Why cannot a host of our dairy farmers write us such letters as this, giving their actual experience in farm dairying? If you do not agree with what your brother farmers say in these columns, give us your reasons. Let us candidly and thoroughly review the situation. candidly situation.

Now we have a rew important questions to ask, and we wish to secure a score or more of replies. Ought not every good buttermaker to refuse to take butter to the store and exchange for groceries? Do you practice this plan, and are you satisfied with it? Can you suggest any improvement?—Ed) you suggest any improvement?

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if mothers would cast aside foolish prudery, and impart to their daughters the knowledge that they, themselves, have acquired by years of suffering, they would be forced to spend fewer hours of anxious attendance at the bedsides of sick daughters. A woman who suffers from weakness, disease, or derangement of the distinctly feminine organs is an incomplete woman. She is unfitted for woman's highest and best duty-motherhood. She cannot be a happy wife or the mistress of a happy home. Dr. Pierce's Favorite Prescription is the only proprietary medicine ever devised by an expert skilled specialist in woman's diseases for the one purpose of curing these troubles in the privacy of the home. It makes a woman strong and healthy in a womanly way, and can be relied upon to relieve motherhood of all peril and almost all pain. It insures healthy, robust children. It transforms weak, sickly, nervous invalids into healthy, happy wives and mothers.

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wives and mothers.

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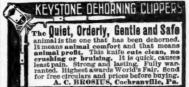
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THE MICHIGAN FARMER.

THE PRESIDENT'S MESSAGE.

The message sent to Congress by President McKinley on Monday last is one of the most important documents ever sent to that body. Its importance comes from the momentous events which have occurred since Congress adjourned, and the grave ques tions which must come before that body for final settlement. While there are many important matters relating to internal affairs, the main interest centers in the reference made to our foreign relations, and the results of the war with Spain. A summary of the events connected with the war takes up a considerable part of the message, and makes the document quite lengthy. His praise of the army and navy, after a recapitulation of the great work they accomplished, is generous and hearty.

In referring to the results of the war the President is necessarily hampered by the fact that the treaty of peace with Spain is not yet completed, and this makes his utterances on the subjects involved less direct and positive than usual. Then there is seen in what he does say a willingness to allow Congress to consider the various questions without attempting to lead the judgment of members to follow a special line of policy which he had decided to

be right and proper. It is apparent that he is more anxious to have a line of policy followed which will prove the safest and best for the country to pursue rather than secure the adoption of a course which is in consonance with his private opinions. He is American enough to understand that the final action of a body like Congress, with representatives from every see tion of the Union, is more likely to prove correct, where entirely new questions are to be settled, than the best judgment of any one individual. His utterances regarding Cuba are strictly in accord with the views outlined by Congress at the outbreak of the war, and will serve to show the Cubans themselves as well as the powers of Europe that the views of Americans have not changed regarding that island and its people. He says on this subject:

island and its people. He says on this subject:

As soon as we are in possession of Cuba and have pacified the island, it will be necessary to give aid and direction to its people to form a government for themselves. This should be undertaken at the earliest moment consistent with safety and assured success. It is important that our relations with these people shall be of the most friendly character and our commercial relations close and reciprocal. It should be our duty to assist in every proper way to build up the waste places of the island, encourage the industry of the people and assist them to form a government which shall be free and independent, thus realizing the best aspirations of the Cuban people.

Spanish rule must be replaced by a just, benevolent and humane government, created by the people of Cuba, capable of performing all international obligations, and which shall encourage thrift, industry and prosperity, and promote peace and good will among all of the inhabitants, whatever may have been their relations in the past.

Neither revenge nor passion should have a place in the new government. Until there is complete tranquillity in the island and a stable government inaugurated, military occupation will be continued.

Which practically means that having interfered to put an end to misrule

ing interfered to put an end to misrule in Cuba, that position must be maintained until the people of the island show that they are capable of selfgovernment, when American troops will be withdrawn and the Cubans left to manage their own affairs. This position of the President will meet the approval of a large majority of the We American people. must have peace on that island, and it should be insisted upon, no matter whether the government is Cuban or Spanish.

No position is taken regarding the Philippines, no doubt because the treaty under which they are to be ceded to the United States is yet under consideration.

The President favors an increase the regular army, and a strong addition to the navy. He deems both these suggestions an absolute necessity in view of the changes which have taken place in our foreign relations

The President reviews the relations existing between this government and those of Great Britain, Russia, France, Turkey, Mexico, Chili, and other South American republics, and says they are generally friendly, and that such matters as are in dispute are in course of settlement.

One important matter discussed in the message is the currency. Regarding that the President says:

ing that the President says:

In my judgment the present condition of the treasury justifies the immediate enactment of legislation recommended one year ago, under which a portion of the gold holding should be placed in a trust fund from which greenbacks should be redeemed upon presentation, but when once redeemed should not thereafter be paid out except for gold. It is not to be inferred that other legislation relating to our currency is not required; on the contrary, there is an obvious demand for it. The importance for adequate provision which will insure for our future a money standard related as our money standard now is, to that of our commercial rivals, is generally recognized. The companion proposition that our democratic paper currency shall be kept safe and yet be so related to the needs of our industries and our internal commerce, as to be adequate and responsive to such needs, is a proposition scarcely less important. The subject, in all its parts, is commended to the wise consideration of Congress.

The greater interest generally taken in foreign affairs will probably keep the currency question somewhat in the background, but its great importance

will surely bring it forward in time. Under present satisfactory trade conditions, where the relative value of gold and silver, greenbacks and national bank notes, is easily maintained, most people will think it best to leave well enough alone. The suggestions of the financiers who met some months ago at Indianapolis, indicating a radical change in the currency by the retirement of the greenbacks and the issue of national bank notes to replace them, are not likely to find favor with the majority of Congress, and we do not look for any "re form" of the currency along the lines indicated.

Taking the message as a whole its utterances will commend it to the ma jority of conservative citizens, and re-new their confidence in the wisdom and discretion of the President.

NOT GOOD ADVICE.

NOT GOOD ADVICE.

We believe that the farmers in the country are making a serious mistake in trying to force their cattle into the market just at this time. It is true that they are fat and in good condition but it is none the less the poorest time in the year to sell. In the fall it is nearly always the case that every farmer's stock is fat, the temptation to sell is strong, it is put on the market, and the result is that the price is forced considerably below what it otherwise might be. It is true that if we were so situated that shipping could be done at a profit, it would remedy this somewhat, but not entirely. Any farmer in Alpena county who has cattle ready for market, can easily keep them in the same condition for a few months longer, which means both increased weight and generally advanced prices, and make his stock easily pay him \$5.00 to \$15.00 more a head than what it will bring him now. Any farmer can readily see the value of a good bunch of cattle in January, February, or even in March, when nearly every man in the country has sold out his stock. This will be true of only steers and cows, as no other class will find favor with either butchers or shippers. The same thing is true of lembs. Instead of selling them now at an average weight of from 50 to 70 pounds, at \$3.00 to \$3.50, it will cost but little more to feed them \$0 or 90 days longer and sell them at from \$4.00 to \$5.00 or \$5.50 at an average weight of from \$0 to 100 pounds. This can only be true of ewes and wethers. There are no kind of conditions under which it will pay a farmer to waste his time with any other class.—Alpena Ploneer.

The above extract, which appeared in a recent issue of the Pioneer, while undoubtedly written with the intention of giving good advice to its farmer readers, will, if followed, prove very injurious to their interests. present market conditions it is the smooth medium weight young cattle that are demanded, and which bring the best prices. These are also the cattle that make the best return to the feeder. If a steer can be put on market with only the cost of one winter's keep to be deducted from his selling price, it will be seen that the cost of production is cut down very material-Then the steer under two years of age puts on weight more quickly than if over that age. With increase of age comes increased cost of making gain in weight. If to this is added loss of price because the steer has got too heavy and carries too much fat, we fail to see how any feeder can afford to hold cattle once they are fit for market. Another great advantage in pushing cattle while on feed is that the money invested in them is got out more quickly, and can be used either to purchase more stock cattle, or in any other direction necessary. The farmer with a bunch of cattle on hand ready for market, is generally short of ready money because of the cost he has been to in buying and feeding them. For him to hold them some months longer, and perhaps borrow money to carry them along, would be a great mistake, even if the market should advance a little, and that is a contingency that is not at all certain. At the present time cattle-good cattle-are selling even above a fair price. To expect prices to advance sufficiently to make good the cost of carrying cattle already fit for market, to or three months longer, is nearly sure to result in disap-pointment. The promised shortage in

cattle at the west has not yet made itself felt. On the contrary, receipts are very heavy at such markets as Kansas City and Chicago, the only shortage being in the finest grades, which are the only ones the farmers of this State should be putting on the market.

When we come to lambs the reasoning in the article is still more erroneous. The prices and weights quoted for lambs are far from being in accord with the actual sales in the Chicago, Detroit, or Buffalo markets. The ideal weights for lambs, the weights which bring the top prices every week, range from 78 to 85 lbs., A hundred-pound lamb, equal in quality with one weighing the amounts named, will be discounted 25 to 30 cents per hundred. If a farmer has a bunch of nice lambs which average about 80 or 85 lbs., they should go to market at once. With the usual shrinkage they will reach Buffalo in the condition to get the top price, provided they have been well finished and are of choice quality. To feed such lambs any longer would be simply to throw away feed and time.

It is a safe system to follow to market live stock just as soon as it can be got in proper market condition. For that reason good judgment is required in selecting stock for feeding. It will save time and feed because it matures more quickly, and when put on market it secures the best prices because it has the quality wanted by the butcher and consumer. All the feed and care possible cannot put this quality into a scrub. To hold such stock after it is in shape for market is to throw away the advantages which come from early maturity and good feeding. No good business man will ever follow such advice.

SUGAR BEET CONTRACTS.

Commissioner French, who charged with the enforcement of the beet sugar law passed by the last legislature, very properly calls attention to the violation of the terms of that law in contracts prepared by the owners of certain factories. These contracts have been issued by the promoters of factories which are to be built in Monroe and Oakland counties. Two parties from Oakland county called at The Farmer office the past week to discuss these contracts. One had refused to sign the contract offered him because it stipulated that the analyses made by the factory's chemist should be final. We advised him not to sign such a contract, and also said we very much doubted if the manufacturers could collect the State bounty upon sugar manufactured from beets secured under such a contract. Land Commissioner French makes this very plain in the statement he has given out to the press. More important still is the fact that in these contracts there is a scaling down of the price per ton fixed by the law to be paid by manufacturers before they are entitled to the bounty offered by the State. It is singular that business men should attempt to openly set aside the provisions of a law under which they are entitled to very material benefits. They are placing themselves in the position of defying the provisions that do not suit them, and then claiming benefits under this law which can only be secured by obeying it. Commissioner French's statement is so clear and comprehensive, and the subject is one of so much importance to our readers, that we give it in full:

Letters have been received at this office from farmers, who make inquiries concerning the contracts which parties are making with the farmers of Monroe and Oakland and adjoining counties, for the growing of sugar beets. I have examined the contracts and although the contract being made by the Monroe parties says: "The intent of this contract is to conform with the law of Michigan, offering a

bounty for the manufacture of beet sugar," I find that it does not.

The law enacted by the last legislature offering a bounty of one cent a pound upon all sugar manufactured in Michigan from beets grown in Michigan, provides that "the manufacturer shall produce good and sufficient receipts and vouchers to show that at least \$\frac{1}{2}\$ per ton of twenty hundred pounds has actually been paid for all beets purchased, containing twelve per cent of sugar" and "a sum proportionate to that amount for all beets containing a greater or less per cent of sugar." The manufacturer must pay the following prices for beets in order to obtain the bounty under the present law:

Beets containing 10 per ct. \$3.331-3 per ton

tain the bounty under the present law:

Beets containing 10 per ct. \$3.33 1-3 per ton
Beets containing 11 per ct. \$3.66 2-3 per ton
Beets containing 12 per ct. 4.00 per ton
Beets containing 13 per ct. 4.00 per ton
Beets containing 13 per ct. 4.66 2-3 per ton
Beets containing 14 per ct. 4.66 2-3 per ton
Beets containing 15 per ct. 5.00 per ton
Beets containing 16 per ct. 5.00 per ton
Beets containing 16 per ct. 5.33 1-3 per ton
The law makes no discrimination as to
the co-efficient of purity of beets. The
same price is paid for beets with a co-efficient of purity of 55 should the per cent of sugar
be the same. The following prices are set
forth in the contract being made with the
Montroe farmers in the name of John N.
Francis:
Per cent. Co-efficient Price offered Dates

Per cent,	Co-emcient	Price offered	Price re-
	of purity.	in contract.	quired.
14	78	\$4.00	\$4.66 2-3
13	78	4.00	4.66 2-3
13	76	3.75	4.33 1-3
12	79	3.75	4.00
13	75	3.50	4.33 1-3
12	78	3.50	4.00
13	74	3.25	4.33 1-3
12	77	3.25	4.00
10	75	3.00	3.33 1-3
10	70	2.50	3.33 1-3
13	82	4.25	4.33 1-3
14	80	4.50	4.66 2-3
15	80	4.75	5.00
16	50	5.00	5.33 1-3

It may be seen that there is not an instance in which the company agrees to pay the stipulated price for beets and the State will not pay any bounty upon sugar manufacutred from beets secured under such a contract and paid for accordingly. Inasmuch as the contract says that the intention is to comply with the law, it is may opinion that it will not be possible to hold the farmers to their contract, as the contract does not comply with the law.

intention is to comply with the law, it is my opinion that it will not be possible to hold the farmers to their contract, as the contract farther agrees: "That all analyses made by John N. Francis shall be accepted as final, it being understood, however, that the farmers are at liberty to select and employ, at their own expense, any competent chemist to whom John N. Francis shall give free access to his beet laboratory for the purpose of checking the test made by the chemist in the factory." Along this line the law says that the State Land Commissioner shall appoint suitable weighmen and inspectors and assistants who shall weigh all beets received at factorles, select samples of beets for the purpose of determing the amount of tare and "he shall also test, or cause to be tested, said samples to ascertain the true per cent of sugar they contain, and make a record of same." These men although appointed by the land commissioner, are paid by the manufacturer, but are required to give bond in the sum of \$2.000 contingent upon the faithful performance of his duties.

Inasmuch as the law places this new industry in the charge of the State Land Commissioner, of are as the State is concerned, this department will see that the letters of the law are carried out by those claiming bounty from the State. There is no way in which the manufacturer can evade the law and then secure the bounty offered. Every term of the law must be compiled with before the State will say any bounty. Producers of the Iaw and then secure the bounty offered. Every term of the law must be compiled with before the State will say any bounty. Producers of the law and then secure the bounty offered. Every term of the law must be compiled with before the State will say any bounty. Producers of the best whose contracts do not provide for the payment of a price for beets to the amount as given in the above table may know that it is not the intent of the company to comply with the law. Unless the law is complied with the farmer has no guarantee that he wil

PUBLIC AFFAIRS.

The students at Princeton University have unanimously decided to abolish every form of hazing at that institu-The movement is said to have been voluntary on the part of the students, and their action is regarded very favorably by the faculty and trustees of the university. If other educational institutions will follow this lead of Princeton, it will put an end to a disgraceful and cowardly system of intimidation and personal abuse which has not a single good reason for its existence.

The Railroad Gazette states that the Carbondale and Houesdale gravity railroad, operated first by horses, and later by stationary engines and cables, is to be discontinued because of the changes in the transportation of coal. The road was built in 1829, before locomotives came into use. It was on this road the first locomotive was placed which ever ran over a track on this continent. The road is only 26 mlles long, and the grades very steep. The locomotive referred to was brought from England in 1829, and was provided with two walking beams,

like those of some river steamboats, with connecting rods attached to cranks on the driving wheels. These wheels were made of wood, like wagon wheels, and had iron tires. There has been some progress in railroad and locomotive building since the appearance of this pioneer, and yet not many years have elapsed since then. What a contrast between such a locomotive and the cars then in use, and the limited express trains which now run between New York and San Francisco, in which the traveler enjoys all the comforts of a modern hotel while journeying at the rate of 40 miles an hour. the rate of 40 miles an hour.

An American citizen, one Frank Knaack, of New York, has been ar-rested and imprisoned in Germany for "lese majeste," that is, speaking disrested and imprisoned in Germany for "less majeste," that is, speaking disrespectfully of the German emperor. The particular charge against him is that he referred to the emperor as "a big calf's head" in a public restaurant. Mr. Knaack, who is a civil engineer, and an educated man, denies emphatically that he ever referred to the emperor in such terms: but the police ically that he ever referred to the emperor in such terms; but the police spy, who seems to be ubiquitous in Germany, and is always watching for an opportunity to distinguish himself, insists that he did. Mr. Knaack's friends, who were present with him at the time, endorse his denial. All the same he is in prison, and his bail has been increased to nearly \$4,000. The punishment for the offense is one year in prison. His trial is expected to come off about the 15th of this month, and no doubt he will be convicted, as and no doubt he will be convicted, as the German officials have such a deep the German officials have such a deep dislike to everything American. We will see what our government has to say regarding the treatment accorded Americans in that country, and whether Minister White, who is always assuring us of the cordial feelings existing between the two governments, will be able to secure justice for Mr. Knaack. Knaack.

The general condition of business in the United States seems to indicate a degree of prosperity much in advance of the past five years. R. G. Dun & Co., in their review of trade on Saturday of last week, say the report of failures for the month of November is extremely gratifying, "because it shows not only a decrease in number and a smaller amount of liabilities than in any other month, excepting three summer months, since the monthly record began, but because careful analysis shows a striking improvement both in the small and in the large failures, and in nearly all classes of industry and trade. Considering that failures are unusually small in the summer months, the monthly return for November may be considered about the best ever made, and shows a condition of financial soundness rarely suppressed." Bradstreet's report, isa condition of financial soundness rarely surpassed." Bradstreet's report, isa condition of financial soundness rarely surpassed." Bradstreet's report, issued on the same day, was equally flattering. It said: "The business world enters on the closing month of the year with so many favorable and so few depressing features in sight as to leave little doubt that the year 1898, as a whole, must hereafter furnish the basis for estimate when comparisons basis for estimate when comparisons of large business are to be made. Nearly all obtainable statistics and reports as to the volume of business point to the present year having heavily exceeded any former year in the amount of business done, and though comparisons as regards prices are not so favorable as in earlier years, notably 1892 and 1890, when quotations of most staples were considerably higher, s'ill the expansion of trade, due to increased population and enlarged foreign demand for our products, has resulted in an aggregate volume of business done considerably in excess of any former year." basis for estimate when comparisons

Detroit's snowstorm on Sunday night Detroit's snowstorm on Sunday night proved a costly experience to transportation, telegraph and telephone lines, all of which had their business more or less impeded, and in some instances entirely suspended. The big telegraph poles in the city, with their immense loads of wires, and covered with a beauty lead of damp spow in many inpoles in the city, with their immense loads of wires, and covered with a heavy load of damp snow, in many instances were overturned, and the work of restoring them has not yet been completed. The trolley lines in the city had to suspend perations, and those from outside were not able to get through until morning. For twelve nours the city was practically shut off from telegraphic and telephone connection with other points. The breaking down of the poles brought down also live electric wires, and several horses were killed by coming in contact with them. A rough estimate of the loss is \$110,000, but by the time everything is again in working order the losses of the various companies may reach double that amount, when the loss of business is added to the the loss of business is added to the cost of repairs. The result emphasized very strongly the necessity of putting wires underground, something the city officials have been trying to do for the past ten years, with hardly enough success to warrant them in continuing neir efforts. The underground wires their efforts. The underground wires continued to work without interrup-

LETTER FROM THE STATE DAIRY AND FOOD COMMISSIONER.

the Editor of The Michigan Farn

Permit me a line in your columns to the farmers of Michigan, and those through whose instrumentality the anti-color oleomargarine law was en-The law went into effect Sept. 1st. 1897, and its enforcement was attempted by the Dairy and Food department. After a vigorous and stubborn fight it became evident that the law could never be strictly enforced law could never be strictly enforced until the State Supreme Court should pass upon it. Accordingly the Department so moved that two cases were argued and submitted in the Supreme Court on the 19th of March, 1897. Tuesday night at 6 o'clock the Supreme Court handed down its opinion, declaring the law invalid for the reason that at the time it passed the legislative body it contained no enacting clause. The constitution of Michigan says, in Sec. 48, Article IV, that "The style of the laws should be, "The People of the State of Michigan enact."

It seems that this oleomargarine bill was introduced in the Senate without these words, "The People of the State of Michigan enact." The Supreme Court in its opinion intimates that were it not for this flaw the statute would be constitutional; therefore it is fair to presume that the next legislature will re-pass this measure, and that it will become a valid law upon the books. However, this cannot take until the State Supreme Court should

it is fair to presume that the next legislature will re-pass this measure, and that it will become a valid law upon the books. However, this cannot take place before Sept. 1st. 1899, since by a constitutional provision all acts of the legislature, unless passed by a two-thirds majority, do not become operative until ninety days after the close of the legislative session. It is fair to assume that the session will not close before June 1st, therefore nothing could be done with the statute until Sept. 1st. In the meantime are we to allow the sale of colored oleomargarine without restraint throughout the State? We of the Dairy and Food Department have determined to prosecute the sale of these goods under a section of the general food law which reads: "An article shall be deemed to be adulterated within the meaning of this act if it is colored, coated, polished or powdered, whereby damage or inferiority is concealed, or if by any means it is made to appear better or of greater value than it really is." We means it is made to appear better or of greater value than it really is." We expect to begin a number of cases be-fore the 15th of the month. We have today secured an opinion from one of today secured an opinion from one of the leading criminal lawyers of the State, as well as from several prose-criting attorneys, that the section re-ferred to covers the sale of colored oleomargarine. We shall therefore take up the fight and endeavor to prevent the sale of this contraband product until the legislature in its wis-dom shall re-pass the anti-color stat-ute; but the writer is of the opinion that this effort to prevent the sale of colored oleomargarine will need the support and endorsement of every friend of fair play and honest butter colored oleomargarine will need the support and endorsement of every friend of fair play and honest butter in the State. Furthermore, a movement to bring about the proper passage of the anti-color measure by the next legislature is very advisable, and, Mr. Editor, allow me the suggestion that it is time the dairymen and farmers of Michigan moved in a concerted and unanimous way to protect their products. I am a believer in organization and method. Strong in this belief, I cannot but recommend that the various farmers' organizations, such as the Grange, the Associated Farmers' Clubs, and the State Dairymen's Association, should take up this fight upon Clubs, and the State Dairymen's Asso-ciation, should take up this fight upon fraudulent products, and through their representatives in the legislature, ex-ert all their influence for the re-enact-ment of this law, and its proper en-forcement. Now is the time when the Dairy and Food Department in this State needs your support if it is to ac-complish the mission you intended it

should. It is well known that a tre mendous effort was made to defeat the enactment of the anti-color law at the last session. In the writer's judg-ment—and he believes himself compe-tent to pass judgment—a much stronger effort will be made to prevent

stronger effort will be made to prevent its passage at the coming session.

The point upon which the law was declared invalid was brought to the attorneys for the oleomargarine corporations by a paid lobbylist who had worked in the last session against the passage of the anti-color law. During the thickest of the fight in Grand Rapids, he gave to the oleomargarine attorneys the information that the law had been passed without an enacting clause. I tell this to show how sharp and vigorous an opposition is to be ex-

clause. I tell this to show how sharp and vigorous an opposition is to be expected this coming winter.

The Department's case regarding the constitutionality of the vinegar law in the Supreme Court was also among the decisions handed down Tuesday. Unlike the oleomargarine among the decisions handed down Tuesday. Unlike the oleomargarine decision, the Supreme Court stood for every contention made by the Department, and declared the conviction secured in the Grand Rapids Circuit Court a valid one. This case was brought against the largest vinegar concern in the United States, and conviction was had after two trials in the Grand Rapids courts. This sweeping decision probably puts an end to all controversy as to the constitutionality of the vinegar law. of the vinegar law.
ELLIOT O. GROSVENOR.

A SPLENDID ENDORSEMENT.

Greenville, Mich., Dec. 5, 1898. ne Editor of The Michigan Farmer:

To the Editor of The Michigan Farmer:

Dear Sir:—In remitting my subscription, I wish to state that I think your plan of dispensing with the middleman is admirable, and should increase your subscription list.

Though not a farmer, still I find The Michigan Farmer a most helpful paper. I count it among the best educational journals published. I should think it would be as indispensable to teachers of rural schools as to farmers.

Very respectfully,

Very respectfully, F. D. SMITH, Supt. City Schools.

Monroe is to have a chicory factory if farmers will contract to grow 600 to 700 acres of the plant annually. The promoters claim \$6 per ton will be paid for all grown. There is one in operation at Bay City, and it is reported to be doing a good business.

Reports from the farmers who have grown sugar beets the past year continue to be very favorable. Two farmers in Tawas township, Iosco county, put in six acres of beets last spring, and they harvested 110 tons of beets, which analyzed 131/2 per cent at the Bay City factory. For the crop they received a total of \$522, or an average of \$87 per acre. The result was so encouraging that a large area is likely to be put into beets next season by the farmers of that county.

A peculiar and interesting case was decided the past week in the Oakland County Circuit Court. It was begun nearly a year ago by Stephen Baldwin, a Detroit capitalist, against Fred A. Baker, lawyer, stock-breeder, and jolly good fellow. Baldwin tendered Baker in payment 364 silver dollars to discharge a mortgage for that amount on his farm, which Baker refused to accept. Baker took steps at once to foreclose the mortgage, and Baldwin filed a bill in chancery asking that the mortgage be discharged, since he had tendered the payment to Baker. The case came up before Judge Smith, and his decision was that the tender of the silver in payment for the mortgage was good, and he accordingly ordered silver in payment for the mortgage was good, and he accordingly ordered the mortgage discharged as paid. Of course the case will be appealed, and after it has been passed upon by the State Supreme Court it may go up to that of the United States. It is evident Judge Smith holds that the silver dollar is a legal tender, and we can't see how any court can hold differently. But Mr. Baker is a far better lawyer than the editor of The Farmer can ever hope to be, and he is a fighter besides; but we are afraid the crafty Baldwin has, in the words of the ungodly, "done him up."

The Household.

(12)

CONDUCTED BY MRS. ELLA E. ROCK-WOOD.

We should be pleased to have any of our readers who take an interest in household topics send in their views and opinions upon any subject which is under discussion, or which they wish discussed. The invitation is general, and we hope to see it accepted by many. Address all letters for The Household to Mrs. Ella E. Rockwoed, Flint, Mich.

It is good to have a corner just to call one's own,
Though it be a nest in branches by the west wind blown;
Though it be a crooked window under mossy old eaves,
Known but to darting swallows and to autumn's drifting leaves;

Though it only be a little room of four bare walls.
Caught in 'mid smoky chimneys and the city's noisy calls.
The heart may rest awhile, and the soul may be alone,
If yet one has a corner just to call one's own.

The busy world is beckoning and lures us

And life seems all to-morrow, though 'tis leaving us to-day; But there's nothing half so rare, in the golden days to come, As a little roof, a low roof, that we call Home.

There is nothing half so precious in the wide world and free,
As the dear hearts, the near hearts, close to you and me,—
Oh, when the dream is broken, and awandering we roam,
We'll find no other shelter like the one called Home!

Fame may be awaiting us, and glory on the way. But the humble things, the sweet things, are ours every day; And for loss or for gain, there is nothing can atone Like a heart and a corner just to call one's own!

HOME CHATS WITH FARMERS WIVES.

"Will you kindly tell us through th

"Will you kindly ten us through thousehold of some good books for girls? Not real small girls, but girls in their teens. Would like something which while interesting, will be of which, while interesting, will be of some benefit to them. Please give names of authors."

Thus reads a note from one of our Thus reads a note from one of our Household mothers, and it is with pleasure that I respond, for if there is anything I like to do it is to help young people to acquire a taste for good reading. There is a great deal of truth in what Mrs. Grace said in her article last work about a taste for trashy literaweek about a taste for trashy litera-

week about a taste for trasny intera-ture being hard to overcome, and the best way to do is to get the taste for good literature in ahead of the other. A list of writers particularly adapted for girls must necessarily vary consid-erably according to the ideas of the one o gives it, but it has been my aim recommend standard authors of known excellence, and I have personally read at least a few books of every author named.

First on the list I shall place Louisa M. Alcott's books. They are standard and just as good and as applicable to girls to-day as they were when fresh from the hand of the author thirty years ago. They are charming, every one of them. No boy or girl should miss reading them.

Then the life of Miss Alcott should be also read. Edna D. Cheney has given us a good one.

Next I shall place Mary E. Wilkin, the popular and gifted portrayer of New England life of the present time. Miss Wilkin's stories are pure and

Miss Wilkin's stories are pure and bright and true to life. She charms while she instructs, for you may be sure that somewhere there are exactly such characters as she portrays, and that they do and say the very things she says they do.

Miss Muloch, too, should be read by our girls. What story can be more charming than John Halifax, as popular to-day as ever and found on every book counter at holiday time.

Mrs. A. D. T. Whitney portrays some beautiful girl characters in her books which will every one be found pure and good and healthful reading for the young, while the popular Pansy books

and good and healthful reading for the young, while the popular Pansy books are familiar to almost everybody. As literary productions the latter may not come quite up to the standard demanded by the critic, yet they will not fail to incite emulation of the good deeds of her heroines on the part of those who read them. Mrs. Alden's girls are good ones and the influence of her books is uplifting. good ones and the influence of ner books is uplifting. Among men writers, we will mention Thackeray and Dickens, as of those

whose works never get to be out of date. More modern writers of fiction which girls may read with advantage are Barry, McLaren, Robert Louis Stevenson, Marion Crawford, Antony Hope, Howells, and for a portrayer of southern life, Thomas Nelson Page.

We must have some history of course, and for this we may take any of the standard histories to be found in

standard histories to be found in of the standard histories to be found in any library. Prescott, Macaulay, Irv-ing are among standard historians, while the latter is not to be missed in his other work either. The Bay View reading course will be found excellent for study along special lines and fits in well with other read-

This is not by any means a complete list of authors who may be advantageously read by girls, yet it will do for a start. The world never had so

do for a start. The world never had so many writers as now. Many of them are good and provide us with pure wholesome reading, while others may far better be left alone.

There is a certain pride in the ownership of books and to one who loves them nothing is treasured more. Books are often ill-used and become shabby long before they should. A bookmarker should be used rather than to turn down a leaf, and a book should never be laid face downward when open. be laid face downward when open.

be laid face downward when open. Here are a few rules for opening and using a new book. They are given by a prominent publishing house, D. Appleton & Co.:

Hold the book with its back on a smooth or covered table; let the front board down, then the other, holding the leaves in one hand while you open a few leaves at the back, then a few at the front, and so go on, alternately opening back and front, gently pressing open the sections till you reach the center of the volume. Do this two or three times, and you will obtain the best results. Open the volume violently or carelessly in any one place, and you will likely break the back and cause a start in the leaves. Never force the back; if it does not yield to care the carely are the property of the total the control of the control of the control of the second of the control of the cont gentle opening, rely upon it that the back is too tightly or strongly lined.

SOME CHRISTMAS SUGGESTIONS

I have begun already to make thing

I have begun already to make things for Christmas. I made two little heart pincushions in this way:
I cut for each two pieces of cardboard, heart-shaped, covering each one side with silk or cloth, then whip the two together over and over and stick pins in all around. Suspend with wither ribbon

I have also made a hood for my sis-er—a Christmas present. It is made a this way: Crochet a chain of 108

First row: In fourth stitch from end of chain* crochet three treble, two chain, one treble. (All these in the one stitch). This completes one shell. Then skip three stitches and repeat from *.

Second row: Crochet three chain and three treble in last treble, two chain and three treble in same, miss three treble and two chain and crochet three treble in next, (not the two chain), two chain, one treble, repeat to end of row. Repeat rows until the

chain), two chain, one treble, repeat to end of row. Repeat rows until the plece is wide enough from crown to forehead for the one who is to wear it. The back plece is made the same, only it is but half as long. Sew the long piece around three sides of the other and finish with ribbons and a little crocketed address record the foce.

other and finish with ribbons and a little crocheted edge around the face. Line with outing flannel. This is a nice hood for a little girl.

A Christmas present I saw today was a hairpin holder made in the form of a hat. One piece of cardboard cut round and another three inches wide and long enough to make a smaller circle for the crown of the hat. This was sewed in the middle of the first was sewed in the middle of the first piece after covering both with pretty pink cloth. Crochet a cover to fit top of crown piece and cover where the

hairpins are stuck in:

hairpins are stuck in:

I think pincushions make pretty presents. I made one like this:

Cut nine two-inch squares of factory cloth for lining. Fold them and mark with a crease where the center of each side is. Cut nine three-inch squares of silk, put the corner of a piece of the lining upon the corner of one of the pieces of silk and sew together till the crease is reached, then commence on the next corner and sew to meet the first stitching. Fold the extra silk in a box pleat and stitch down. Do all four sides of each block in this way, slipping a little wad of wool between the lining and outside before closing the last side. With a few

stitches draw the silk firmly down in the center of each square. The nine squares make one cushion cover. I used different silk for each square, Books make nice presents and aprons are always acceptable to those who have their own housework to do. Celluloid picture frames are also nice. Celluloid picture frames are also nice. Picture books delight the little tots

and stories the older ones.

I enjoy Mrs. Grace's letters very much, also many others in the House

MISS EMILY EDSON.

A CHRISTMASY LETTER

Will Aunt Em please come to the Will Aunt Em please come to the front and tell us about those overshoes for children? It is almost Christmas, and they will, no doubt, be nice for presents. How fast the time files. It does not seem but a short time since we were preparing for last Christmas. It will be a sad Christmas for me this year; some of our family circle are gone—moved away too far to spend

this year; some of our family circle are gone—moved away too far to spend Christmas in the old home. Our children married and settled near us, and on all festive occasions they meet in the old homestead, where they were born and brought up. But now there will be four vacant chairs, and it seems to me now that I cannot bear to have the rest come, unless the absent ones are here too. And while I am planning presents for the rest, I shall remember them, and send them something, althem, and send them something, though it is twelve hundred n

though it is twelve hundred miles away.

Our editor wishes us to tell how to make something pretty for Christmas and what we are doing ourselves. I am not doing much fancy work—thought I would try some salt work. I think it is pretty and one can make so many different articles. I have a bed quilt pieced for one, a cushion and head rest of worsted pieced after the fan pattern, sixteen blocks for the cushion, a rug, pillow shams, one scarf and mittens for three little boys, and two picture scrap books for little ones—made of blue or pink cambric. I shall make some other little gifts, and buy some, but I think Christmas gifts made by ourselves are appreciated more than those we buy. Articles for home decoration and comfort are always acceptable, especially to those who have but little time for such work.

There are many inexpensive little trifles which can be made from scraps

There are many inexpensive little trifles which can be made from scraps of silk, wool and other fabrics, which will carry with them good cheer. Needle books, pin balls, pen wipers, button bags, handkerchief cases, and work bags are all easily made by willing fingers.

fingers.

A neat style of button bag is made of four pieces of pasteboard cut almost elliptical and of equal size. Cover each with velvet, plush or flannel, and line with satin or cambric. Then fasten the pieces together, leaving one side unsewed for the opening. A ribbon for hanging is attached from end to end, and by pressing on these two ends the box opens. Many other small articles might be made for some one to find out how good it is to give, even if you don't receive.

AUNTIE B.

MRS. GRACE'S CHRISTMAS HINTS

For the invalid or the aged one of For the invalid or the aged one of the family who shivers at the very thought of winter, make a footstool of three-fourths of a yard of ingrain carpet or denim. Sew up one end and the side, stuffing it full with old rags or batting. It makes the warmest kind of a footstool and will stand any

kind of a footstool and will stand any amount of kicks without injury.

A dressing sack makes a good gift. Make from pretty outing flannel. Cut square yoke and gather back and fronts on rather full. Buttons and button holes close the front. Finish with ruffle over the shoulders and around the neck.

A good footstool which is represent

with ruffle over the shoulders and around the neck.

A good footstool which is very convenient for the children to play with if nothing else is made of a yeast cake box which can be had at any grocer's. Cover with pleces cut from an old coat or pair of pants or from a cast-off dress. A little excelsior or wadding of some kind should be put under the top covering. Fancy stitches in colored yarn may be put in the top piece or it may be left plain.

A busy mother would be glad of some nice holders. From a pair of old overalls make a large thick ironing holder and several smaller washable ones from ticking or the tops of old socks. Prettier ones for the sitting-room stove are made of outing flannel tied with bright colored yarn. Sew a ring to each holder, Good ones for

this purpose may be taken from worn-out suspenders.

Cushions for chairs or couches are always acceptable. Very pretty and servicable ones are made of five-cent calico

calico.

A bunch of paper flowers brighten up a room nicely. Get a sheet of wadding, yellow or pink; and from it cut circles two or three inches in diameter. String six of these on a thread making a ball of them. Sew baby ribbon on, pink on yellow, and green ribbon on the pink. Put six balls in a bunch to hang over a picture frame.

The children's large handsome

The children's large handsome school cards can be very cheaply framed and will please them very much, especially if they are allowed to have a voice in the matter of selecting a place for the pictures to hang hang.

Now you wives, just look the other way a minute while I tell the good man what to get for you. If Tom, or Dick, or Harry, whatever his name may be, will get his wife a pair of felt-lined shoes he may save a big doc-tor bill. Don't get the cheap ones felt-lined shoes he may save a big doctor bill. Don't get the cheap ones that are broad and homely, but a pair of two-dollar shoes that are well made and nicely finished. These will be a source of comfort all winter and your wife will put two heaping spoonfuls of sugar in your coffee and cook all manner of good things for you to eat all the rest of the winter.

MRS. GRACE.

Our thanks are hereby extended to those who have sent directions for knitted mittens. We have also received instructions for knitting twist stitch backs as well as shells. One of each will be printed.

RELIEF FROM PAIN.

Women Everywhere Express their Gratitude to Mrs. Pinkham.

rirs. T. A. WALDEN, Gibson, Ga., writes:

"DEAR MRS. PINKHAM:-Before takto me, I never saw a well day. At my monthly period I suffered untold misery, and a great deal of the time I was troubled with a severe pain in my side. Before finishing the first bottle of your Veretable Compound I could of your Vegetable Compound I could tell it was doing me good. I continued its use, also used the Liver Pills and Sanative Wash, and have been greatly helped. I would like to have you use my letter for the benefit of others."

Ars. FLORENCE A. WOLFE, 515 Aulberry t., Lancaster, Ohio, writes: "DEAR MRS. PINKHAM:—For two

years I was troubled with what the local physicians told me was inflammalocal physicians told me was minamit-tion of the womb. Every month I suf-fered terribly. I had taken enough medicine from the doctors to cure anyone, but obtained relief for a short time only. At last I concluded to write to you in regard to my case, and can say that by following your advice I am now pefectly well."

Ars. W. R. BATES, Mansfield, La., writes:

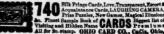
"Before writing to you I suffered dreadfully from painful menstrua-tion, leucorrhœa and sore feeling in the lower part of the bowels. Now my friends want to know what makes me look so well. I do not hesitate one minute in telling them what has brought about this great change. I cannot praise Lydia E. Pinkham's Vegetable Compound enough. It is the greatest remedy of the age."



BOOK AGENTS WANTED FOR OUR WAR WITH SPAIN

arous us negroning to the close. With many fine steel plates, maps, and choice engravings. By Hon, HENRY B. BUSSELL, assisted by SENATOR PROCTOR (VL.) and SENATOR THURSTON (Neb.). One Agent cleared \$200.00 in first two weeks, another \$400.00 in three weeks. 1,000 more Agents wanted. Distance no hardrennes for we Pay Freight Give. more Agents wanted. Dis pht. Give Credit, Extra Te

MOTHERS Your Children Cured of Bed. Wetting, Sample Free Dr. F. E. May, Bloomington, Fill



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CHRISTMAS GIFTS FROM ANTRIM COUNTY.

CHRISTMAS GIFTS FROM ANTRIM COUNTY.

Dear Editor and Sisters of The Household—I have long been an interested reader of The Household, and have obtained many useful hints from its columns. I have thought many times, as some interesting topics were being discussed, that I would write, but like most other farmers' wives have had plenty of other things to occupy my time.

But to-day as I read the editor's request for letters concerning Christmas gifts I resolved to write and tell you of a few things that I have found quite acceptable for presents. This year I am crocheting a rose tidy of clouded crochet thread, pink and white. Any common tidy pattern is very pretty made of the colored thread, and it can be purchased very reasonably.

One year I made several picture throws of sheet wadding. One sheet will make two. Scallop the ends and work around the scallops with a button-hole stitch of silk. Paint a design of flowers at either end, and tie a bow of ribbon in the centre. I have one myself made of silkoline. It is much the same only the ends are hemmed and finished with tiny fancy balls. About one inch from the hem the threads are drawn and baby ribbon in serted in the opening.

Rugs are very acceptable presents

About one inch from the hem the threads are drawn and baby ribbon inserted in the opening.

Rugs are very acceptable presents for housewives, and one can seldom have too many. I have received two and prize them very highly.

I will now try and give directions for a star of tufted work that will make handsome cushion tops, headrests or rugs. For rugs take some heavy cloth, men's clothing is excellent, cut in blocks about eight inches square. Either get a tin star at the tin shop or cut one of pasteboard. Take three colors of Germantown yarn. Place the star in center of block and sew over and over it until each point has been entirely covered three times, once with each color. Then cut through the center of each point and take out the paterner. ter of each point and take out the pat-tern. You will be surprised with the result if you have never tried it before. Crochet scallops of carpet warp for a

border.

If this proves to be of any benefit to the sisters, I may come again. I wish to be known to the Householders as MINERVA.

SOME GOOD THOUGHTS FROM GRATIOT COUNTY.

In response to the call for Christmas suggestions, and as a small compensation for the many helpful words of our Household which I have received, I send the following ideas in regard to gifts:

Farmers' wives, and many in the city have but little.

regard to gifts:

Farmers' wives, and many in the city, have but little money, and we must make what we have go as far as possible. If it is only a dollar, by right management we can make ten or more persons happy; for if the gift is not so costly it will be appreciated as a token of love. A set of sauce dishes, a chopping knife, paring knife, kettle drainer, soup scoop, dipper, iron dishcloth, thimble, etc., are among the things most needed by the busy housewife. Handkerchiefs, socks, pocketbooks, etc., make the gentlemen smile. It isn't necessary to buy everything for presents. Among the children you can give pieces of calico for dolls' dresses and quilts, bits of lace and embroidery, a bag made of denim or other stout cloth for carrying school books, pin cushions, pen wipers, etc. If you have plenty of hickorynuts, walnuts, apples or popcorn, give them a half bushel, or whatever you can spare. You can in this way save work for yourself and make a whole family happy.

If you have a friend in town or

for yourself and make a whole family happy.

If you have a friend in town or country that must buy everything, give her a nice fat chicken, dressed or not, as you choose, some potatoes or apples, a can of boiled cider, or mince meat, a roll of butter, or even a generous gallon of sweet or sour milk, or both. I have a friend living in town to whom I once took sweet milk, sour milk, and mincemeat. She said: "Thank you for all; but most for the sour milk; it is so hard to get in town."

If your house is all carpeted, give your friend the carpet rags that have accumulated during the year. If you haven't time to cut them, she will gladly receive them just as they are. In fact, give anything you have or can afford to get regardless of what your richer neighbors may say of you.

MRS. R.

S. P.—The most beautiful black for your

S. P.—The most beautiful black for your dress is the Magic dye black for wool. Try it.

DIRECTIONS FOR MAKING SHELL-STITCH MITTENS.

Put 21 stitches on each of three

First row—K 1, o, k 1, purl 2. Repeat until you have knit around.

Second row—Knit plain and purl two s before. The purl two comes beas before. tween shells.

Third row—Slip 1, k 1, slip first over second, k 5, n, p 2. Repeat once around.

Fourth row—Slip 1, k 1, slip first over second, k 3, n, purl 2. Repeat once around.

around.
You will now have 21 stitches on a needle. Repeat from beginning. Knit in this way as long as the wrist is desired, then knit the same on one needle for the back and the other two plain.

Dexter.

EDNA.

Che Poultry Pard.

A CONTINUOUS POULTRY HOUSE.

(See Figs. 1 and 2 on first page.)

I have always liked this style of a house better than any other, and for cheapness and warmth together it cannot be equaled. It can be built at a cost of not over one dollar per running foot for the lumber, and any good handy poultryman can build it.

handy poultryman can build it.

The house has a 4-foot hallway (A. Fig. 1) the entire length, and a door leading outside at each end (E). The ventilator is located directly overhead and is controlled by small rods attached to each section; if they are made of glass, like a transom above a house door, they will assist in giving more light, although it is not necessary.

each pen. To hang these doors I use a screw-eye in the door and an L-shaped screw hook to hang the door on; then it can be easily taken off and set one side, out of the way, when cleaning.

The nests (H) should be made on the dark, or to "prevent egg-eating" bian, and be made removable so as to be easily and thoroughly cleaned. For all the partitions I should use wire netting, but lath can be used with a couple of fine wires at the top.

By this plan you will see that the fowls have all of the floor space, the hall floor being elevated to the top of partition boards, and by setting the feed and drinking vessels close, most of the work can be done from the hallway. The entrance at each end is graded off so that a wheelbarrow or small hand cart can be wheeled through, the doors being as wide as the hall—four feet.

The exterior design is shown in Fig.

through, the doors being as wide as the hall—four feet.

The exterior design is shown in Fig. 3, together with the yards. It is quite a job to make a good, tight roof without using roofing paper. I succeeded, however, by using good, dry lumber, tarring the edges of the boards and laying tight, then tarring the whole roof over; after this was thoroughly dry, tar the under side of a four-inch batten and nail over each crack while the tar is fresh, then tar the whole roof over again. again.

again.

Plug the knot holes up with a fresh tarred plug, smooth and well tarred on top. The best kind of tar is the solid asphaltum, which is applied hot. Whenever a leak shows give it a dose of tar, and if a patch is necessary put it on the same as the battens.

By this plan of yarding there will be two yards to each pen, one on each side of the house. By using these yards alternately the grass can be kept growing in them all the time. I should like to impress two things upon poultry rais-

be painted with any kind of paint, and it lasts very well without any paint. E. E. PAGE, EXPLANATIONS OF CUTS.

EXPLANATIONS OF CUTS.

Fig. 1.—Interior view of continuous house. A, passageway 4 ft. wide, B, scratching and feed runs. C, roosting and nest room. D, passageway under floor. E, outside door. F, ventilator. G, sliding doors to yards.

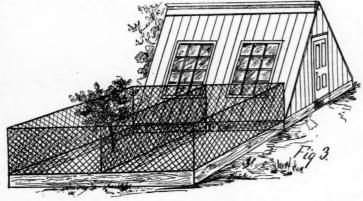
Fig. 2.—Sectional view of interior. A, hallway. B, scratching pen. C, roosts and nests. F, ventilator. H, nest-box. I, roosts. J, dust-box. K, feed trough and water. L, glass. M, hall door.

Fig. 3.—Outside view of house, showing plan of yards.

To Any College Without Cost

A little book for young women and for young men; an explanation of the plan by which young men and girls may obtain college, university or conservatory training without its costing them a penny, and the stories of some of those who have already done so. Free to any address.

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The lower edge of ventilator (F) is shade and lots of grass.

The lower edge of ventilator (F) is hinged to roof, as shown more clearly in Fig. 2, the top resting against a strip running lengthwise of the house. The stick for opening and closing them should have a little screw-eye in the end, to fasten on a hook on the opposite side of the hallway from the ventilator, and high enough to give room for walking through.

The roosts and nests are all on the C side of the house. The side marked B is for scratching and chicken workshop, and in these runs there should be a plentiful supply of dry litter in which to scatter the grain food.

When choosing a site for the house there should be room for yards from both sides and a southern exposure for the glass side. The foundation should be plowed over twice, each time throwing the dirt to the center, so that the inside will be at least a foot higher than the outside; then harrow and roll it down smooth. The lower board, as shown in Fig. 2, should be set down in the earth six inches, all over the house, and on the outside about a foot. The floor is of earth, except the hallway, this is high enough to allow the fowls to walk under, as shown in D and D, Figs. 1 and 2. A sliding door is made on the C side, leading under the hallway floor, so that the fowls can be shut in either side, for cleaning or other convenience.

The interior arrangement is shown in

other convenience.

The interior arrangement is shown in Fig. 2. The roosts, nests, feed trough, water, grit and supply boxes are on the C side, and the dust box, cabbage, sheaf oats and whatever you see fit to hang up, on the B, or scratching side.

The hot-bed sash, L, is fastened on the outside by small bolts, the sash being bedded in fresh coal tar and tarred paper. A cloth curtain strung on three wires can be drawn across the inside to keep the hot sun out in summer. There and doors (M) on both sides, leading to

shade and lots of grass. For shade, I would recommend plum trees first; in an emergency, very early sunflowers. Start them in the house and when first planted protect them with guards. Plant them in groups. For the grass, sow white clover, and as an emergency grow rye or oats. All kinds of clover are good; the main object is to keep the yards green; the chickens will eat any kind of tender grass and by watching and changing from one to the other at the proper time, they can be kept very nice. For shade, I very nice.

very nice.

In regard to size of house, I would use 16 to 18-foot boards for the roof, and make the roof square pitch, which would make the house about twenty feet wide. Make a pen to every sixteen feet of house, which will accommodate twenty fowls easily. The yards would be sixteen feet wide and ninety-six feet long or longer.

Of course these houses can be built any size required, but one rule should be adhered to—that is, to have the hall-

any size required, but one rule should be adhered to—that is, to have the hall-way high enough to walk upright in. When letting the fowls into the yards it is a good plan to let one pen on one side and the next on the other, and so on, until all are out. In this way they cannot fight and are less liable to try to get out of the yards. In very cold climates, where it is necessary to have a very warm house, use a good heavy roofing paper, well painted, but be sure to tar the roof anyway. The battens will have to be left off and in some cases a few put on over the roofing paper.

One of the best papers I ever used is called the "Neponset;" it is a red rope paper, comes in three thicknesses, can



CHOICE B. & W. P. Rock Cockercls 1\$ each. Pullets, 75 cents.
MRS. AMY SOUTHWORTH, Allen, Mich.

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Mammoth White Holland Turkeys for Sale at Mead-Farm, Rochester, Mich. Also a few very ci MINORCA COCKERELS "Garland strain









THE WHOLE STORY of successful in slegge. Full description of the best machines tous for the purpose. For building modern, economical poultry houses; poultry supplies leading varieties of pedigree poultry; prices on eggs for hatching, of information to every man or woman who keeps hear. We send it to

Legal Department.

CONDUCTED BY EARL D. BABST, to 11 Bank Chambers, No. 80 Griswold St. Detroit, Mich.

D. G., Cross Village, Mich.-We are unwilling to give an opinion as to the validity of title held by school district without an examination of abstract and records.

Undated note due on demand.—E. B., Manistee Co., Mich.—If A gives a note to B and there is no date given when it shall be paid, can it be collected? If so, when?—The note is due on demand.

Land acquired through tax title. Land acquired through tax title.—
Subscriber, Sand Lake, Mich.—
Whether or not a particular tax title
is good can only be ascertained after a
careful examination of the legality of
all the steps leading up to its acquirement. We cannot venture an opinion
on the one concerning which you
write write.

write.

Tuition of non-resident pupils—
Straw part of the crop.—J. H. B.,
Jackson, Mich.—1. Our answer to M.
P., Decatur, answers your question as
to tuition of non-resident pupils. 2.
Straw is a part of the crop, and under
a cropping agreement should be divided in the same proportion as the grain.

Descent and distribution of property.—S. L., Montague, Mich.—Mrs. C was married to Mr. A, Mrs. C owning real estate at the time of their marreal estate at the time of their marriage, and some personal property. After their marriage the wife bought some unimproved land which Mr. A improved. The wife died, leaving a daughter by her first husband. How will her property be divided—The fact that Mr. A improved the land purchased by his wife is of no importance unless there was an agreement securing reimbursement to Mr. A. All the real estate will descend to the daughter, and the personal property goes to the daughter and Mr. A in equal shares. equal shares.

Tuition of non-resident pupils.-M. P., Decatur, Mich.—If a man owns a house in town, all furnished, but does not live in town, but pays taxes there and insurance, is he compelled to pay tuition for his children, who live in town most of the time?—The domicile town most of the time?—The domicile or residence of the minor is that of his parents. Residence is the locality in which a person resides for the time being. The statute secures equal school privileges to all "residents," hence we are of the opinion that you must pay tuition, which must not be more than 15 per cent above the average cost per capita for the number of pupils of school age. Furthermore, the amount of such school tax shall be credited on their tuition, and you can credited on their tuition, and you can be compelled to pay tuition for the difference only.

The Markets.

WHEAT.

The week closes with the market not as favorable for sellers as a week ago. Statistically the position of wheat is becoming stronger. The increase in the visible supply is very light considering the large amount being marketed in the northwest. The demand for home consumption and shipment abroad has taken nearly all the receipts. These will begin to drop off now that winter has really set in, and it would not surprise us to see the visible remain nearly stationary for the next few months. The report that vessels are loading with wheat at eastern ports for shipment to Russia would seem to indicate a deficiency in some portions of our greatest competitor in European and British markets. That is a significant fact when taken in connection with the large foreign demand. It looks as if the United States and Canada would have to supply about all the wheat needed by Great Britain during the winter months. At present here is no support to the market from speculators. It is only held up by the demand for the spot grain. Liverpool declined Thursday, and so did Paris.

The following table exhibits the dally closing sales of spot wheat in the Detroit market from November 15 to December 7, inclusive: The week closes with the market not as

inclu	sive:				
		No. 2	No. 1 1	Mixed N	fixed
			White.		Vhite
Nov.	15		7036	69%	70
44	16		70%	70	7034
49	17		71	70	701/6
	18	7034	71	70	70 72
8.6	19	702/	71	70	7014
64	21	7117	7134	70%	70%
66	22	715/	72	7094	71
		7178	7114	704	7014
86		11	41.72	10%	10%
44	24	701/	77017	70	70
6.0	26	001/	20%	69	
44	28	698/	70	6914	69 691/2
88	29	603/4	70	69%	0972
**		0074	407/	69	09/2
Dec.		7037	5094		091/4
Dec.	1	10%	10%	69%	69%
64	2	6974	6994	69	69
	0	69%	60%	691/4	691/4

88	5	69%	69%	6972	0955
6.6	6	69	691/4	68	681/4
66	7	681/8	681/4	671/4	67%
.64	8	661/2	661/2	66	66
The	following is	the 1	record o	of the	clos-
ing pi	rices on the	vario	as deals	in fu	tures
each	day during t	he we	ek:	200	May

each day during the week.	Dec.	May
	69%	69%
Saturday	69%	69%
Monday	69%	69%
Tuesday	681/6	691/4
wednesday	661/2	68
Thursday		

The visible supply showed an increase of 729,000 bu. the past week, much less than

729,000 bu. the past week, much less than exnected.

The Ohio state crop bulletin for December 1 shows that the conditions of growing wheat crop in Ohio has fallen off 2 points since November 1, due to the rayages of the fly and the grub worm. Still its condition is 100 per cent of a full average. The acreage shows an increase of 4 per cent over last year.

Russian shipments last week were 1,472,000 bu., against 992,000 bu. the previous week and 2,736,000 last year. Danubian shipments were 496,000 bu. These are certainly small wheat shipments in view of the enormous crops Russia is said to have raised.

Broomhall says the arrivals of bread-state United Kingdom last week

week and 2,736,000 last year. Danublan shipments were 496,000 bu. These are certainly small wheat shipments in view of the enormous crops Russia is said to have raised.

Broomhall says the arrivals of breadstuffs in the United Kingdom last week were about 2,800,000 bu., compared with 4,000,000 bu. a year ago. Broomhall expects an increase in the amount on passage next Monday. Quantity of wheat stocks in chief Russian ports November 13 (official), 14,056,000 bu., compared with 12,560,000 bu., compared with 12,560,000 bu. November 13, 1897.

Argentine crop prospects are very good, and reports of the Russian crop are favorable.

The agent of an exporting house, writing from London on the grain situation, says: "On America, and America alone, we shall have to depend for the bulk of our supplies for some time to come."

Bradstreet's says of wheat prospects: A heavy increase in acreage is reported this fall, and the growing crop prospects are about all that could be desired. American farmers have so far done quite well in view of the conceded heavy yield this year, and the temptation to go still more heavily in wheat is a strong one. That this can be overdone was proved by the prices paid in the years 1893 to 1896, though it is to be remembered that theredoes not at present seem any likelihood of an immediate recurrence of the depression in trade which characterized those years and which unquestionably exercised a distinctly unfavorable effect upon values of wheat as well as other products of agriculture.

Broomhall's correspondent at Buenos Ayres, writing under date of October 28, says: From what we have been able to gather everything is going on satisfactorily in the wheat districts. On the western Santa Fe line the manager tells me that the crops are very good; on the Santa Fe Cordoba line the wheat has suffered in some parts, but taking it all round the outlook is not bad. Making a rough estimate, by taking into account area under cultivation, etc., and supposing that everything will go on satisfactorily as at th

would appear in parts of the Russian emperior founded.

India is reported to be suffering from drouth; her next crop will be from a reduced acreage, and cannot therefore be

duced acreage, and cannot therefore be large.

An authority writing upon the situation in the northwest, says: While no one questions that there is wheat enough in the northwest to meet all requirements of local consumption, it is evident that the demand for shipment is sufficient to move the remainder. There is no probability, therefore, that any considerable amount of wheat will be held over to a new crop, excepting such as may be carried on farms.

DAIRY PRODUCTS.

The market has weakened under the in-creased receipts, and while no change has been made in quotations, it requires betreased receipts, and while no change has been made in quotations, it requires better quality to bring the top price in either dairy or creamery. This condition is also apparent at the east, where the situation has compelled a reduction in prices. Quotations in this market are as follows: Creamery. 20g2016; flarcy dairy. 16c; fair to good, 13g15c; low grades, 3g11c. At Chicago the market holds about steady. The condition of the market holds about steady has disappeared and on the market are as follows: Creamery and the condition of the market holds about steady has disappeared and the condition of the market holds about steady. The condition of the market holds about steady has disappeared and the condition of the market holds about steady has disappeared and the condition of the market holds about steady has disappeared and follows: Creameries, extras, 1260184c; firsts, 156016c; No. 2, 13c. Ladles, extras, 1246014c. Packing stock, 116012c. Roll, 1246014c. Roll, 124601 The market has weakened under the increased receipts, and while no change has been made in quotations, it requires better quality to bring the top price in either dairy or creamery. This condition is also apparent at the east, where the situation has compelled a reduction in prices. Quotations in this market are as follows: Creamery, 20021c; fancy dairy, 16c; fair to good, 13015c; low grades, 9011c. A. Chicago the market holds about steady, but the firmness noticed some weeks ago has disappeared under a steady increase in the receipts. Quotations in that market are as follows: Creameries, extras, 200204c; firsts, 17018c; seconds, 14016c, Dairies, extras, 180184c; esconds, 14016c, Dairies, extras, 180184c; esconds, 14016c, Dairies, extras, 180184c; firsts, 15018c; No. 2, 13c. Ladles, extras, 124014c. The New York market has weakened under a steady accumulation of stocks, and values there are unsettled and lower. Receipts are large, winter dairies being all at work now, and with fresh cows the output is very large for the season. Values have declined 1602 since a week ago. Quotations in that market are as follows: Creamery, Western, extras, per lb, 20c; do firsts, 18019c; do thirds to seconds, 144/2017c; do sate, finest, 110194c; do firsts, 1170184c; do seconds, 15016c; State dairy, half-firk tubs, fall made, finest, 18c; do firsts, 14018c; do seconds, 15016c; State dairy, June, extras, 19c; do firsts, 117018c; do seconds, 15016c; Western imitation creamery, finest, 164/201c; do firsts, 116/2015c; do seconds, 15016c; Western imitation creamery, finest, 164/201c; do firsts, 14018c; do seconds, 15041c; do thirds to seconds to firsts, 182184c; do seconds to firsts, 182184c.

At Elgin on Monday 424 tubs were offered, more than usual, and sales were made at 21022c, as against 22c the previous week, and 224c one year ago. Market closed steady.

The best full creams are selling at 11c per lb, and second grades at 10½@10½c. Stocks are not large in any of the cheesemaking states, nor are large amounts in distributing markets, such as Chicago and New York. We look therefore for a firm market to prevail with an upward tendency in values. At Chicago the market is again higher, and firm at the advance. The demand is fairly active, and the situation favors holders. Quotations are as follows: Young Americas, 10@10½c; twins, 8½@10½c; cheddars, 8½@9½c; twisk, 82m10½c; limburger, 5½@3½c; brick, 6@5½c. The New York market shows increased strength. Supplies of full cream cheese continue quite moderate, and demand restricted in consequence. The feeling is very firm, with market gradually gaining strength on desirable grades. Finest September and October large cheese is more easily sold than bought at 10c, while few strictly fancy small sizes are obtainable below 10½c. November-made cheese shows the usual late-made defects, and generally offering at 9½c for large sizes and 9½g%c, for small. Skims held quite firmly for desirable grades. Quotations in that market are as follows: State, full cream, September and October, large, colored, fancy, 10c; do white, fancy, 10c; do colored or white, November, choice, 9½c; do good to prime, 9@9¼c; do common to fair, 7@8½c; light skims, small, choice, 7½@8c; do large, choice, 66½c; do good to prime, 5½@6%c; do common to fair, 5½e%c; gart kins, small choice, 6½g*do; do large, choice, 66½c; do good to prime, 5½g6%c; do common to fair, 3½g4½c; full skims, choice, 66½c; do good to prime, 5½g6%c; do common to fair, 7%g6; good the market for American cheese is firm and higher. Quotations are colored, and 62c for for for form of the form of th The best full creams are selling at 11c per

At Liverpool the market for American cheese is firm and higher. Quotations are 48s. per cwt. for colored, and 47s. for white, as compared with 45s. 6d. for colored and 44s. 6d. for white last week. The advance is likely to start prices upward on this side of the Atlantic.

DETROIT PRODUCE MARKET.

Detroit, December 8, 1898.
FLOUR.—Quotations on jobbers' lots in

OILS.—White kerosene oil and turpen-tine are higher. No other changes. Quo-fullywa. Raw linseed, 350

OLLS.—White kerosene oil and turpentine are higher. No other changes. Quotations are as follows: Raw linseed, 36c, boiled linseed, 36c, less ic for cash; extra lard oil, 50c; No 1 lard oil, 35c; water white kerosene, 9c; fancy grade, 11½c; water white kerosene, 9c; fancy grade, 11½c; dedodorlzed stove gasoline, 9½c; turpentine, 45c per gal in bbl lots.

HARDWARE.—No changes have occurred since a week ago. Quotations are as follows: Wire naïls, \$1.50; steel cut nails, \$1.45 per cwt, new card; axes, single bit, bronze, \$5.5 double bit, bronze, \$5.5 isngle bit, solid steel, \$5.50 per doz; bar iron, \$1.35; carriage boits, 75 and 10 per cent off list; thre boits, 75 per cent off list; painted barbed wire, \$1.65; galvanized, \$2 per cwt; single and double strength glass, \$0 and 15 per cent off list; sheet iron. No 24, \$2.25 per cwt, galvanized, 75 and 10 per cent off list; No 9 annealed wire, \$1.45 rates.

DETROIT LIVE STOCK MARKET. Michigan Central Stock Yards.

CATTLE.

Receipts Thursday, 676, as compared with 299 one week ago. Market fairly acwith 259 one week ago. Market fairly active; good handy butchers steady, common thin butchers and stockers slow and weak. \$5.00 was top price to-day for a choice steer weighing 1,560 lbs, but the bulk changed hands at prices ranging from \$3.00 to \$3.70; fair te good butcher cows, \$2.76 to \$3.50; canners and common thin butchers, \$1.25 to \$2.65; bulls, good shippers, \$2.35 to \$3.50; light to good butchers, \$2.76 to \$3.50; tockers, \$3.00 to \$6.50; feeders, \$3.65 to 4.00. Veal calves—receipts, \$1; active at \$5.50 to \$6.25, a few choice brought \$6.50. Milch cows and springers active at \$30.00 to \$45.00 each; good fresh young cows bring \$5.00 to \$10.00 per head more; very few here.

Bradford sold Caplis & Co 4 mixed butchers av 305 at \$2.90.

Weitzel sold same 4 do av 882 at \$3.50. Spicer & Merritt sold Frey 7 mixed butchers av 700 at \$3.45 and a steer to Gray weighing 550 at \$3.46.

Purdy sold Reed 6 stockers av 600 at \$3.50, 3 mixed butchers to Caplis & Co av 686 at \$3.10 and 5 do av 900 at \$3.50.

Coates sold Sullivan 3 mixed av 970 at \$2.50 and 11 do av 752 at \$3.12½.

Loosemore sold Bussell 5 mixed butchers av 914 at \$3.70 and 6 feeders to Sullivan av 886 at \$3.90.

Spicer & M sold Schleicher 7 mixed butchers av 804 at \$2.60 and 8 do av 608 at \$3.50.

Erwin sold Regan 5 mixed butchers av 550 at \$3.00, 12 steers to Sullivan av 632 at \$3.50.

Erwin sold Regan 5 mixed butchers av 645 at \$3.50.

Erwin sold Regan 5 mixed butchers av 635 at \$3.50.

Carter & Fuller sold Marx 5 mixed butchers av 642 at \$3.50 and 22 do av 800 at \$3.50.

Weeks sold Sullivan 4 steers av 655 at \$3.50.

Weeks sold Sullivan 4 steers av 655 at \$3.50.

Brooks sold Sullivan 6 mixed av 758 at \$3.50.

Brooks sold Kamman 7 mixed butchers tive; good handy butchers steady, mon thin butchers and stockers slow

\$3.60.

Weeks sold Sullivan 4 steers av 695 at \$3.50.

Ackley sold Sullivan 6 mixed av 758 at \$3.55.

Ackley sold Kamman 7 mixed butchers av 521 at \$3.00.

Brooks sold Kamman 7 mixed butchers av 521 at \$3.00.

Bunnell sold Fitzpatrick 10 mixed butchers av 1046 at \$3.12½, a steer weighing 950 at \$4.00 and a buil to Sullivan weighing 1,900 at \$3.50.

Hawley sold Regan 2 mixed butchers av 740 at \$3.35.

Aldrich & H sold Hymas & B a bull weighing 1,800 at \$3.15, 7 cows to Mason & F av 890 at \$2.00 and 1 weighing 930 at \$3.50.

Lewis sold Sullivan 4 mixed av 957 at \$3.00.

Lewis sold Sullivan 4 mixed av 957 at \$3.00.

Feason sold Robinson 3 mixed butchers av 762 at \$3.75.

Bunnell sold Houghton 2 steers av 665 at \$3.50.

Reason sold Robinson 3 mixed butchers av 866 at \$3.00 and 2 canners to Mason & F av 785 at \$1.25.

Mayers sold Fitzpatrick 13 mixed butchers av 806 at \$3.40.

Prucha sold Magee 13 mixed butchers av 761 at \$3.40.

Belhimer sold Fitzpatrick 3 mixed butchers av 800 at \$3.50.

Belhimer sold Fitzpatrick 3 mixed butchers av 803 at \$3.40.

Dunn sold Caplis & Co 3 mixed butchers av 816 at \$3.60.

Brooks sold Fitzpatrick 4 cows av 920 at \$2.75 and 14 stockers to Farnum av 625 at \$3.40.

McLaren sold Mich Beef Co a steer weighing 1,560 av \$5.00.

Spicer & M sold Pritchard 7 feeders av 711 at \$3.60.

H H Howe sold Bussell 2 heifers av 900 at \$3.75.

Kelsey sold Houghton 2 steers av 840 at \$3.60.

SHEEP AND LAMES.

Receipts Thursday, 897; one week ago, 1,092. Market active and 10 to 15c higher

\$3.60 and 2 cows to Mason & F av 1,150 at \$2.60.

SHEEP AND LAMBS.

Receipts Thursday, \$97; one week ago, 1,092. Market active and 10 to 15c higher for all but the very common. Range of prices: good to choice lambs, \$5.00 to \$5.25; light to good, \$4.40 to \$4.90; yearlings and good mixed lots, \$4.00 to \$4.75; fair to good butchers, \$3.00 to \$3.90; culls and common, \$2.00 to \$2.85.

Roe & Holmes sold Young 40 lambs av 76 at \$5.00.

Glenn sold Harger 35 lambs av 76 at \$5.00 and 8 sheep av 98 at \$3.00.

Ackley sold Monahan 20 culls av 68 at \$3.00.

Sharp sold same 10 sheep av 85 at \$9.75 and 34 sheep and lambs av 84 for and 34 sheep and lambs av 85 for and 35 for and

Sharp sold same 10 sheep av 85 at \$2.75 and 34 sheep and lambs to Hiser av 71 at \$4.50.

Bergen & T sold Hiser 15 mixed av 80 at \$2.50. Heeney sold Fitzpatrick 51 lambs av

at \$2.00.

Jas Heeney sold Fitzpatrick at minus at \$5.00.

N T Sly sold Young 43 lambs av 80 at \$5.25.

Spicer & M sold Monaghan 59 mixed av 79 at \$2.90 and 53 do to Sullivan Beef Co av 80 at \$5.50.

Belhimer sold Fitzpatrick 47 most lambs

89 at \$3.50.

Belhimer sold Fitzpatrick 47 most lambs av 72 at \$4.90 and 24 mixed av 83 at \$2.50.

Kalahan sold same 22 lambs (bucks) av 90 at \$4.75.

Spicer & M sold Mich Beef Co 35 sheep and lambs av 80 at \$4.75 and 17 av 96 at \$3.50.

Hoover sold same 43 mixed av 74 at \$4.40.

Pline sold Hiser 40 sheep and lambs av 80 at \$4.50.

Pinkney sold Monaghan 35 sheep and lambs av 72 at \$4.40.

00.3\$ is 28 ve sding 88 smas blos isgraH and 8 sheeb av 82 at \$3.25.

and 8 sheep av 95 at \$3.25.

HOGS.

Receipts Thursday, 7,126, as compared with 7,574 one week ago. Market opened slow; later trade was active at prices 2½c below last Friday's closing. Range of prices: Fair to good mixed butchers. \$3.17½ to \$3.25, bulk at \$3.20 to \$3.25; pigs, \$3.15 to \$3.25; stags, 1-3 off; roughs, \$2.50 to \$2.57.

\$3.17½ to \$3.25, bulk at \$3.20 to \$3.25; pigs, \$3.15 to \$2.20; stags, 1-3 off; roughs, \$2.50 to \$2.25; stags, 1-3 off; roughs, \$2.50 to \$2.25; stags, 1-3 off; roughs, \$2.50 to \$2.25. Jelsch sold Hammond, S & Co 64 av 226 at \$3.17½.

Roe & Holmes sold same 151 av 176 and 9 av 218 at \$3.25.
Clark sold same 49 av 214 at \$3.25.
Selhimer sold same 194 av 200 at \$3.22½. Sharp sold same 29 av 184 at \$3.22½.
Spicer & M sold same 52 av 225 at \$3.25.
McKenzie sold same 52 av 225 at \$3.25.
McKenzie sold same 50 av 213 at \$3.22½.
Sweet & N sold same 105 av 173 and 52 av 227 at \$3.20.
Bergen & T sold same 105 av 173 and 52 av 227 at \$3.20.
Bergen & T sold same 25 av 229 at \$3.25.
Weitzel sold same 105 av 161 at \$3.20.
Flinkney sold same 160 av 161 at \$3.20.
Flinkney sold same 18 av 206 at \$3.22½.
Harger sold same 18 av 218 at \$3.22½.
Harger sold same 18 av 218 at \$3.25.
McLaren sold same 18 av 187 and 21 av 200 at \$3.25.
McLaren sold same 18 av 187 and 21 av 200 at \$3.25.

Spicer sold Farnum 14 av 159 at \$3.20.
Kalahan sold Farker, Webb & Co 112 av 177 at \$3.20 and 77 av 188 at \$3.20.
Ackley sold same 54 av 164 at \$3.20.
Ackley sold same 54 av 164 at \$3.20.
Kalahan sold same 72 av 166 at \$3.20.
Ackley sold same 29 av 166 at \$3.20.
Realer sold same 11 av 255 at \$3.20.
Realer sold same 12 av 257 at \$3.20.
Realer sold same 57 av 187 at \$3.20.
Realer sold same 57 av 187 at \$3.20.
Clenn sold same 53 av 171 at \$3.20.
Glenn sold same 38 av 169 at \$3.20.
Sly sold same 38 av 169 at \$3.20.
Dunn sold Parker, Webb & Co 54 av 170 at \$3.20.
Sly sold same 38 av 169 at \$3.20.
Sly sold same 88 av 222 at \$3.20.
Sly sold same 88 av 222 at \$3.20.

Siy sold same 38 av 189 at \$5.20.
 Dunn sold Parker, Webb & Co 54 av 170 it \$3.20.
 Bunnell sold same 157 av 169 and 145 av 84 at \$3.29½.
 Hoover sold same 82 av 222 at \$3.20.
 Henderson sold same 63 av 161 at \$3.20.
 Hcover sold same 83 av 148 at \$3.20.
 Hcover sold same 89 av 124 at \$3.15.
 Proper sold same 80 av 168 at \$3.20.
 Coan sold R S Webb 11 av 182 at \$3.20.
 Ford sold same 12 av 177 at \$3.20.
 Reason sold same 12 av 177 at \$3.20.
 Purdy sold same 12 av 174 at \$3.20.
 Purdy sold same 57 av 174 at \$3.20.
 Purdy sold same 57 av 174 at \$3.20.
 Purdy sold same 99 av 150 at \$3.21½.
 Bergen sold Sullivan 42 av 87 at \$3.15.
 Belhimer sold same 99 av 125 at \$3.20.
 Coates sold same 113 av 153 at \$3.20.
 Purden sold same 21 av 101 at \$3.15.
 Burden sold same 21 av 154 at \$3.20.
 Brooks sold same 13 av 144 at \$3.20.
 Brooks sold same 64 av 177, 14 av 30 and 22 av 101 at \$3.17½.
 Friday, Dec. 9, 1898.

Friday, Dec. 9, 1898. CATTLE

Friday, Dec. 9, 1898.

CATTLE.

Receipts Friday, 302, as compared with 325 one week ago. The quality averaged better to-day. Market active and about steady with yesterday's prices. \$4.85 was top price to-day for 5 choice butcher steers av 1,320 lbs, and \$4.75 for 2 do av 1,200 lbs. balance as noted.

Johnston sold Mich Beef Co 9 mixed butchers av 704 at 33.50 and 3 stockers to Sullivan av 616 at \$3.45.

Frazell sold same 4 cows av 1,092 at \$3.25.

Miller sold Caplis & Co 4 cows av 1,115 at \$2.70 and 1 weighing 1,040 at \$3.75.

Pline sold same 9 mixed butchers av 997 at \$3.70 and a cow weighing 890 at \$2.35.

Haley Bros sold same 2 mixed butchers av 560 at \$3.55. 3 do av 976 at \$2.90 and a heifer weighing 1,040 at \$4.25.

York sold Sullivan 4 bulls av 775 at \$2.70. 2 do av 1,730 at \$3.40. 8 steers av 940 at \$4.40. Belhimer sold same 4 mixed av 758 at \$3.60 and 5 bitses same 14 steers av 644 at \$3.70 and 2 bulls av 655 at \$3.00.

Christensen sold same 14 steers av 644 at \$3.70 and 2 do av 615 at \$3.50.

Frazel sold same 3 mixed av 846 at \$3.55.

Frazel sold same 3 mixed av 846 at \$3.55.

Frazel sold same 3 mixed av 846 at \$3.55.

Spicer & M sold Prucha 2 bulls av 655 at \$3.00.

Spicer & M sold Prucha 2 bulls av 665 at \$3.00.

Spicer & M sold Prucha 2 bulls av 665 at \$3.00.

at \$3.00.
Spleer & M sold Prucha 2 bulls av 665 at \$3.00, 4 do av 732 at \$3.00 and 5 stockers (Jerseys) to McDonald av 660 at \$3.00.
Lovewell sold Fitzpatrick a bull weighing 1,200 at \$2.80 and 5 mixed butchers av 812 at \$3.50.
Discher sold Clancey 3 cows av 910 at \$3.00.

Si2 at \$3.50.

Discher sold Clancey 3 cows av 930 at \$3.00.

Hertler sold Sullivan 8 cows av 930 at \$3.

Roe & Holmes sold Mason & F 2 cows av 985 at \$2.35, 5 heifers to Park, Davis & Co av 570 at \$3.00. 3 mixed butchers to Kammen av 730 at \$3.00 and 9 do av 666 at \$3.00, 6 stockers to Sullivan av 621 av \$3.40 and 3 bulls av 556 at \$2.75, 6 cows to Mich Beef Co av 1,006 at \$2.75, 2 do av 1,115 at \$3.00, 2 do av 960 at \$3.50 and 16 mixed butchers av 851 at \$3.75, also 4 mixed butchers to Kammen av 1,000 at \$3.00.

Leidel sold Caplis & Co 3 heifers av 900 at \$3.90 and 3 steers av 1,093 at \$4.30.

Eddy sold Fitzpatrick 16 mixed butchers av 850 at \$2.50.

Bullen sold Mich Beef Co 2 steers Xmas av 1,200 at \$4.75 and 5 do av 1,230 at \$4.85.

Astley sold Fitzpatrick 3 mixed butchers va 1,143 at \$3.25. p mixed butchers to Mich Beef Co av 783 at \$3.40, a bull weighing 900 at \$3.00 and 4 steers to Sullivan av 850 at \$3.50.

White sold Mich Beef Co 12 mixed butchers av 676 at \$3.55.

Horne & R sold Sullivan 3 bulls av 760 at \$2.66, 6 steers av 796 at \$3.40 and 6 mixed butchers to Mich Beef Co av 908 at \$3.25.

Roberts & S sold Caplis & Co 6 cows av 1,026 av \$2.80 and 2 do av 820 at \$2.25.

Carman sold Sullivan 6 steers av 666 at \$3.35.

Brown & Young sold Mason & F 13 common (cows and bulls) av 914 at \$2.50.

Carman sold Sullivan 6 steers av 666 at \$3.35,
Brown & Young sold Mason & F 13 common (cows and bulls) av 914 at \$2.60.
Luckie sold Mich Beef Co 5 mixed butchers av 740 at \$3.50.
Haley sold Sullivan 9 mixed butchers av 891 at \$3.60.
Cassay sold same 13 steers av 976 at \$3.90.
Roe & Holmes sold Sullivan 5 stockers av 996 at \$3.50. 5 feeders av 748 at \$3.75 and 6 mixed av 875 at \$3.40. 6 mixed butchers to Robinson av 933 at \$3.25, 13 steers and helfers av 857 at \$4.00. 18 steers av 922 at \$4.55, 4 do av 1,250 at \$4.25, 3 mixed butchers av 800 at \$3.00. 3 do av 876 at \$2.75, 4 mixed butchers to Frey av 820 at \$3.35, 2 do av 875 at \$3.55 and 2 bulls av 760 at \$2.65 and 11 mixed butchers to Fitzpatrick av 875 at \$3.50.

SHEEP AND LAMBS.

SHEEP AND LAMBS.

Receipts, Friday, 321; one week ago, 804.

Market active. The few here sold early at about yesterday's prices.

Taft & Tubbs sold Fitzpatrick 33 lambs av 75 at \$4,90.

E Jedele sold Hiser 19 culls at \$1.30 each.

Roberts & S sold Sullivan Beef Co 17 mixed av 75 at \$2.50.

Carman sold Michigan Beef Co 24 lambs av 89 at \$5.00, and 8 sneep av 98 at \$3.76.

Shelton sold McClatchey 37 lambs av 80 at \$5.05.

Hauser sold Bullen 31 lambs av 80 at \$4.80.

Brewer & B sold Hiser 23 lambs av 75 at

Brewer & B sold Hiser 23 lambs av 75 at

Brewer & B sold Hiser 23 lambs av 75 at \$4.80.
Roe & Holmes sold Sullivan Beef Co 25 mixed av 115 at \$3.00, 35 lambs to Robinson av 67 at \$4.90, and 8 do av 42 at \$3.50.
Brown sold Sullivan Beef Co 17 mixed av 74 at \$2.50. HOGS.

HOGS.

Receipts Friday, 6,173, as compared with 7,756 one week ago. Market active and strong, and 2½c higher than prices paid one week ago. One lot of choice, av 194 lbs, brought \$3.30, but the bulk sold at prices ranging from \$3.22½ to \$3.27½.

Lovewell sold Parker, Webb & Co 51 av 179 at \$3.22½.

Parsons & H sold same 105 av 188 at \$3.25.

Parsons & H sold same 105 av 188 at \$3.25.

Roberts sold same 46 av 167 at \$3.25.

Wilson sold same 98 av 180 at \$3.25.

Hauser sold same 122 av 188 and 20 av 178 at \$3.27½.

Roe & Holmes sold same 51 av 167, 16 av 215 and 8 av 337 at \$3.25.

Leidel sold same 65 av 207 at \$3.25.

Hauser old same 91 av 194 at \$3.27½.

Luckle sold same 142 av 191 and 70 av 192 at \$3.25.

Roberts & S sold same 79 av 169 at \$3.25 and 11 pigs av 105 at \$3.17½.

O'Hara sold same 75 av 194 at \$3.30.

Discher sold same 54 av 188 at \$3.22½.

McCloughry sold same 93 av 164 at \$3.25½.

Hertler sold same 16 av 164 at \$3.25.

Eddy sold same 167 av 206 and 35 av 192 at \$3.25.

Hertier sold same 106 av 164 at \$3.25.
Eddy sold same 147 av 206 and 35 av 192 at \$3.25.
Taft & Tubs sold same 33 av 168 at \$3.25.
Roe & Holmes sold same 68 av 179 at \$3.25 and 66 av 115 at \$3.20.
Smith sold same 77 av 173 at \$3.25.
Haley Bros sold same 117 av 178 at \$3.22½.
Roe & Holmes sold same 17 av 183 at \$3.22½ at \$3.25, 94 av 133 at \$3.22½ and 104 pigs av 96 at \$3.20.
Spicer & M sold same 197 av 141 at \$3.22½, 103 av 234, 46 av 271 at \$3.27½, 135 av 192 and 104 av 173 at \$3.27½.
Brewer & B sold same 130 av 205 and 29 av 210 at \$3.25.
Allen sold same 53 av 141 and 66 av 158 at £321.
Eddy sold same 30 av 211 at \$3.25.

A 210 at \$3.27.

Allen sold same 53 av 141 and 66 av 158 at \$3.21.

Allen sold same 30 av 211 at \$3.25.

Talmage sold Sullivan 79 av 174 at \$3.25.

Richmond sold same 69 av 121 at \$3.20.

Hyne sold same 66 av 121 at \$3.15.

Horne & R sold same 53 av 140 at \$3.20.

Luckie sold same 119 av 155 at \$3.20 and 107 av 107 at \$3.20.

Stecker sold same 119 av 155 at \$3.20 and 107 av 107 at \$3.20.

Stecker sold same 20 pigs av 99 at \$3.20.

Spicer & M sold Hammond & Co 163 av 157 at \$3.22\foxup.

Jedele sold same 129 av 201 at \$3.27\foxup.

Spicer & M sold same 81 av 210 at \$3.27\foxup.

F W Horner sold same 81 av 210 at \$3.27\foxup.

Spicer & M sold same 29 av 195 at \$3.27\foxup.

Spicer & M sold same 29 av 195 at \$3.27\foxup.

Spicer & M sold same 29 av 195 at \$3.27\foxup.

Spicer & M sold same 38 av 168 at \$3.22\foxup.

Warren sold same 41 av 205 at \$3.22\foxup.

Warren sold same 41 av 205 at \$3.22\foxup.

Roe & Holmes sold same 75 av 189 and 44 av 132 at \$3.25, 80 av 165, 178 av 161 and 88 av 182 at \$3.25, 80 av 165, 178 av 161 and 88 av 182 at \$3.25, 20 av 145 at \$3.20.

Spicer & M sold Sullivan 21 av 110, 37 av 113 at \$3.17\foxup.

Allen Mallen Malle

OUR BUFFALO LETTER.

East Buffalo, December 8, 1898. Cattle.—Receipts of cattle on Monday last were 5,368, as compared with 4,598 the same day last week. Shipments were 3,564 as compared with 3,608 the previous week. last were 5,368, as compared with 4,598 the same day last week. Shipments were 3,564 as compared with 3,608 the previous week. The market opened steady for best grades of butchers' steers and good fat cows, easy for common cattle and half fat steers, but strong and higher for the best export grades, for which there was an active demand. Stockers and feeders were in good demand at an advance of prime feeders and good light stockers, while common sorts were easy to lower. Fancy Christmas steers sold at \$5.7566; prime export steers, \$5.3565.65; good to choice steers, \$4.2065.25; butchers' dry fed steers, light to good, \$4.3904.75; common to fair steers, \$2.9064.15; heifers, \$2.3564.60; cows, \$2263.90; bulls, \$2.7564.10. Tuesday the market was easy on everything except prime export beeves and stockers, which ruled higher. Wednesday the market was steady for good cattle and stockers, and weak on common and inferior sorts. Quotations closed at the following range: Export and Shipping Steers—Fancy Christmas steers, \$5.7565.90; prime to extra choice finished steers, 1450 to 1520 lbs, \$3.3565.65; prime to choice steers, 1300 to 1400 lbs, \$4.1064.75; green coarse and rough fat steers, 1050 to 1400 lbs, \$4.1064.75; green coarse and rough fat steers, 1050 to 1400 lbs, \$4.1064.75; green coarse and rough fat steers, 1050 to 1400 lbs, \$4.1064.75; fair smooth dry fed steers, 1050 to 1150 lbs, \$4.506.75; prime to half fattened to 1000 to 1300 lbs, \$4.3064.55; igned to choice fat steers, 1050 to 1300 lbs, \$4.3064.75; fair to good fat heifers, \$3.3563.65; mixed lots fair to choice smooth fat heifers, \$3.4063.55; common old shelly cows, \$2.9663.25; common old shelly cows, \$2.0062.50. Native Stockers and Feeders—Feeding steers, good style weight and extra quality, \$3.7664.00; feeding steers common to only fair quality, \$3.5665.50; choice to extra smooth heady weight butcher bulls, \$2.8663.25; tock bulls common to choice, \$2.7

oxen, \$3.75@4.00; old common and poor oxen, \$2.50@3.50. Thursday the market was dull, with prices tending lower except on prime steers.

Thursday the market was dull, with prices tending lower except on prime steers.

Sheep.—Receipts of sheep and lambs on Monday last were 13,000, as compared with 16,000 the previous week. Shipments were 10,000, as compared with 10,000 the previous week. Shipments were 10,000, as compared with 10,000 the previous week. The big snow storm interfered with business in the early part of the day, the provious week. The big snow storm interfered with business in the early part of the day, the provious week. The big snow storm interfered with business in the early part of the day the part of the day of the early sales of the earl

grassy thin culls, \$3.00@3.75; good to extra selected feeding lambs 60 to 75 lbs, \$5.00@5.35.

Hogs.—Receipts of hogs on Monday were 39.140, as compared with 32,680 for the same day last week. Shipments were 21,850, as compared with 23,000 for the same day last week. Shipments were day last week. The market opened steady to firm, with arrivals quite liberal, but coming in late. Values were 24,666 higher than on Saturday, and held steady to the close, although a good many of the late arrivals had to be held over. The range on yorkers was \$3.56@3.35; medium weights and packing grades, \$3.56@3.40; prime heavy, \$3.40@3.45; pigs, \$3.36@3.40; These prices are 20,025c per hundred higher than on Monday of last week. Tuesday the market was 5c lower on all grades but pigs, which were 56/00 lower. Wednesday the market was irregular, but closed about steady with the prices of the previous days. Quotations were as follows: Good to choice light medium grades, 175 to 190 lbs, \$3.30@3.35; choice and selected yorkers, 140 to 170 lbs, \$3.30; fair quality and light yorkers, \$3.26@3.30; mixed packing grades, 140 to 25 lbs, \$3.30@3.35; fair to best medium weight, 200 to 240 lbs, \$3.36, 3.36, 3.40@3.42½; roughs common to good, \$2.90@3.05; stags common to good, \$2.90@3.05; nigs thin and fair light, \$3.60.3.25; pigs skips and common light, \$3.30.3.10.

Thursday the market ruled active and higher. Yorkers, light to good, sold at \$3.35@3.40; nixed, \$3.40.3.30; nixed and higher. Yorkers, light to good, sold at \$3.35@3.50; pigs, \$1.90@3.305.

THE CHICAGO MARKET.

THE CHICAGO MARKET.

Chicago, December 8, 1898.

Cattle.—The receipts of cattle in this at market last week were 52,273, as compared with 83,87 the previous week, and 63,34 for the same week last year. Monday the market was well supplied with stock, but any good fat cattle offered were taken quickly at the highest price of the year \$2.500 for years were dull all day. Closing quotations were to prime steers, 1,600 to 1,500 hs. \$4.500 for the common to choice fed Western steer to prime steers, 1,600 to 1,500 hs. \$4.500 for the common to choice fed Western steer \$4.500 for the common to choice fed Western steer \$4.500 for the common to choice fed Western steers \$4.500 for the common to choice fed Western steers \$4.500 for the common to choice fed Western steers \$4.500 for the common to choice fed Western steers \$4.500 for the common to choice fed Western steers \$4.500 for the common to choice fed Western steers \$4.500 for the common to choice fed Western steers \$4.500 for the common to choice fed Western steers \$4.500 for the common to fair, \$400 for the common to choice fed Western steers \$4.500 for the common table \$4.500 for the past week were 70.524, as compared with \$4.500 for th

(15)

Thursday the market was quiet and unchanged.

Hogs.—The receipts in this market the past week were 272.741, as compared with 205,146 the previous week, and 212,967 for the corresponding week in 1897. Monday receipts were not much more than half what they were last week, and prices jumped up 5@10c at the opening, and the advance held good all day. The quality of the offerings was good. Rough and common packers sold at \$3.20@3.35; prime packers and good mixed, \$3.40@3.55; prime mediums, selected butcher weights, and good shippers sold at \$3.46@3.55; our loads at the outside price; light mixed bacon weights, 130 lbs up to 229, to average 170@180 lbs, sold at \$3.46@3.50; straight and even light, 125@150 lbs average, sold around \$3.20@3.25; light little pigs, 100 lbs average, over or under, \$3.15@3.20. Tuesday the market ruled about steady, but on Wednesday hight were 138,276 this week, as compared with 158,484 for the same days last week. Wednesday business was active at the decline noted. Rough and common packers sold at \$3.20@3.25; prime packers and good mixed, \$3.30@3.37%; prime mediums, selected butcher-weights and good shippers, \$3.40@3.46; largely around \$3.40; light mixed, such as the English houses buy for bacon grades, 140 up to 230 lbs, to average 170@180 lbs, sold at \$3.36@3.37%; a few at \$3.40; the 120@140-lb light averages about the same price; light little pigs of 100 lbs, over and under, sold at a range of \$3.15@3.25.

Estimated receipts on Thursday were 50,000. Market ruled active at Wednesday's prices.

NEWS SUMMARY.

Michigan.

The steel range sharks are said to be working Sanilac county at present.

Kalamazoo held a very successful poul-try show last week.

It is announced that Dr. M. E. Wads-worth, president of the Michigan College of Mines, at Houghton, has resigned. We have not learned when his resignation takes effect.

The creamery at Marine City has changed hands, the stock company by which it was established having sold out. The new owner will put the plant into operation again, it having been closed for some time past.

The first claim presented at the State land office for bounty on sugar manufactured in Michigan was filed this week by the secretary of the company now operating the factory at Bay City. It calls for \$14,325.91, being the bounty due on 1,432.591 pounds of sugar.

Miss Edith McDermott, who recently resigned her position at the Agricultural College to accept a similar one in Cornell University, has been obliged to give up her work on account of poor health. She has returned to her home in Pennsylvania for treatment.

for treatment.

Prof. G. H. Hicks, who graduated from the Agricultural College in 1892 and for several years served as instructor of botany at the College died in Washington, D. C., last Monday morning. Since 1894 Prof. Hicks has been connected with the national department of agriculture.



Send consignments of Eggs, Butter, Poultry, Game, Fruit, etc., to

Miscellaneous.

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THE SILENT LAND.

Slowly fades the sunset flush
Above the ships at sea;
Gently through the twilight hush
The wind blows cool and free.
Now the world its care forgets,
All its passion and regrets;
All the griefs that dimmed the day
From its tired heart slip away.
One by one, alone and slow,
To the Silent Land we go.

Brightly gleams the signal-light Across the drifting foam;
Noiselessly before the night
The white-winged birds filt home.
Down the dusky vale of sleep,
Through the shadows thronging deep,
From our waking joy or pain,
From the struggles fought in vain,
One by one, alone and slow,
To the Silent Land we go.

None may journey with us now;
No friend nor foe we take;
None shall question when or how
The hidden port we make.
None shall see the sights we see—
Sights of weirdest mystery;
None shall hear the sounds we hear—
Chiming music, faint but clear.
One by one, alone and slow,
To the Silent Land we go.

Darker grows the rugged shore; The starlight glimmers cold; Voices heard on earth no more Are calling as of old. Wizard faces, wild and gray—Faces never seen by day—Seem to lurk with grim delight In the haunted halls of night. One by one, alone and slow, To the Silent Land we go.

Soon, full soon, we may awake
Beneath the radiant sky,
Soon, ah! soon, no sound may break
The dream in which we lie.
Quiet worlds of Sleep and Death!
But the passing of a breath,
But the beating of a heart,
Hold your shadowy realms apart.
One by one, alone and slow,
To those Silent Lands we go.

Dost thou tremble, timid soul?

The moonlight floods the sea:
The white waves murmur as they roll
A song of peace to thee.
The dawn will come, when night is o'er,
With twinkling feet along the shore.
To him who clasps his Father's hand
No terror holds the Silent Land,
Though one by one, alone and slow,
Into its mystic realms we go.
—Angelina W. Wray in Harper's Bazar.

THE LOVER'S QUEST.

BY ERNEST GLANVILLE. Author of "The Lost Heiress," "The Fossicker," "A Fair Colonist," "The Golden Rock," &c.

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(CONTINUED)

A dull sound, as of the sea breaking afar, the sound of hundreds of bare feet, steadily advancing.

"They come! Englishman, you take two sides of the square. I will see to the other." The Arab drew his sword, and the bright blade flashed in the dark to the reflection of the dying fire.

Louder grew the sound, accompanied y a swishing noise, and a measured hythm, with a perceptible tremble in rhythm. earth

There was a complete silence in the amp. No one so much as whispered, ach dark figure standing with head heaving breast. bent, and heaving breast.
"Shout!" said the Arab to the induna

who stood beside him. "Shout as if it long, lest they take note of our si who stood beside him.

The induna started his song, deep-throated, and a man from the far end

throated, and a man from the far end took it up. They listened while they sung, and after two or three sentences their voices rolled away in a whisper, and again there was complete silence. "It matters not," said the chief, "they will come now. Give the word that no man must fire until the enemy reach the first wire. Let them all fire together. They will have time in the confusion of the fall, as the front men trip, to reload. Warn them well, not a shot before they reach the outer shot before they reach the wire."

The induna's deep voice rang out in n command as he gave the order, there was a rattle of metal all round the square, as each man thrust

round the square, as each man thrust his rifle through the loophole.

"Fire low," cried the chief.
The order was repeated.
Louder rose the rolling thunder from the advancing army, then was launched a terrific shout that split the air, and, following it, the war cry,

Forward, my brothers, forward.
If we go forward we die.
If we turn back we die,
Let us go forward, my brothers."

"Steady, my children, stand fast, and shoot straight," cried the chief, and Miles ran to the spot opposite to where Hans crouched in his pit outside the

CHAPTER XXIV

Out of the darkness there broke a sheet of fire-red tongues of flame, that darted viciously and belched forth a storm of bullets. From the north and west the first attack came in a hissing hail of lead. Then, after the second volley, in a whirlwind of sound, of yells and whistles, and drumming shields, a rush was made from the south. Out in the darkness there was the gleam of white shields, the indistinct waving of plumes, and tossing of arms. On they came, in a long line, then the foremost man saw the wall Out of the darkness there broke then the foremost man saw the wall looming up ahead, and whistled loud through his teeth. The next instant he went headlong, and the first line, with a howl of anguish as their shins struck the taut wire, followed suit. "Fire!" "Fire!"

The wall was lighted up by the dis charge. The flash revealed a line of struggling figures on the ground and, behind, a wall of racing men crouching low as they came.

Their ranks were torn by the fir and dismayed by the unknown obstacle which had overtaken the first rank, and by the sudden volley, the rest with-

In quick succession other masses were hurled on the other side of the square to be met and driven off in the

"Well done, my children," cried the ef. "You have won the first trial, the struggle is not yet over."

The Angoni, excited, started their chief

The Angoni, excited, started their song, in unison, stamping with their bare feet, and sending forth a magnifi-

out of the darkness came no response for some time, then, from the pile of rocks, there came a stinging

"Keep low, men," said the chief, then reaching Miles he asked if it would not be well to fire the charge.

"Not yet," said Miles; "when they attack again."

"Pass up," came a low voice outside.
"They can the wires."

"They cut the wires

Miles discharged his rifle, and at the signal a steady fire was kept up. Bu presently they heard the hum of a vi-brating wire, showing that one strand-had been cut, then the hum of another, and a sound of men running and tug-

"Stand firm," shouted Miles. "They

come again."
The deep bass of the indunas was heard calling to their men, but the sound was drowned in a wild, fierce cry, as, with an impetuous rush, that cry, as, with an impetuous rush, that threatened to carry all before them, the enemy came sweeping up. There were no wires to check them this time. The volley made them waver, but did not stop them, and soon they were swarming round the walls. The Angoni dropped their rifles and plied kerrie and assegal, shouting with all the fury of their assailants until a din arose as of demons escaped.

The Arab, with a band of a dozen men, raged from point to point wherever the enemy effected an entrance, his sword gleaming like fire until

ever the enemy effected an entrance, his sword gleaming like fire until dulled with blood, and his own voice rising above the horrible storm.

On the west flank the attack was weakest, and the Angoni, on their own account, drew away from there to run where the fighting was fiercest.

The fighting now was in the enclosure, and from the east and north the defenders were being gradually pushed back on the second line of defense about the house. Within the inner wall many wounded men had already gone.

Now there was little shouting but a

Now there was little shouting, but a noise of weapons clashing, of deep breathing, of occasional rifle shots, of the dull crushing blows of the kerries, and the ring of assegais. And, in this enforced lull, there rose a terrible yell of triumph, as a dense mass of the

enforced lull, there rose a terrible yell of triumph, as a dense mass of the enemy rushed to the west wall and came leaping in.

"Hans!" cried Miles, with the whole strength of his voice, "Fire!" Then he wheeled his men across to stem the rush, and with clubbed gun struck with fierce energy. His men had not yet been so hard pushed, and they stabbed furiously. The fight swayed to and fro, the ground grew slippery underfoot, but as fresh men came pouring in the gallant band of defenders, out-numbered five to one, were gradualout-numbered five to one, were gradual

out-numbered live to one, were gradually borne back.

"Rally to the inner wall," came the hoarse cry from the Arab.

The order was repeated by the indunas, and some of the men quickly

dunas, and some of the 'nen quickly obeyed.

"Fire!" cried Miles, "The mine!"

The chief heard, and with his body-

now a scene of inextricable confusion, friends and enemies mixed, and so close that they could not sirike, the pressure from the outside acting as a

pressure from the outside acting as a constricting force.
Suddenly there was a blinding flash. The earth heaved, and with a terrible sound of rending, masses of rock were hurled into the air. At the same time from beyond there arose a wild cry of terror.

of terror.

"Strike and slay!" cried the chief;

"Strike and slay!"
"Strike and slay!" thundered the indunas, and amid a falling storm of rock, the Angoni sprang once more at

rock, the Angoni sprang once more at their foes.

The Matabele, on the edge of the mass of men, terror-stricken at the sudden explosion, fled, and the rest gave way. Miles struggled to the wall shouting to Hans, but that veteran, lying low in the pit, with a stout plank covering his body from the assegai prods of passing Matabele, preferred to stay where he was. In the enclosure, the Angoni set about their work with renewed fury, and the enemy, within renewed fury, and the enemy, within five minutes of the explosion, were in full flight. When once a native starts running in earnest he is past rallying. The triumphant cries of the Angoni, and the following bullets, added wings to their flight, so that none were left but the wounded, and they were killed as they lay, before Miles knew what was happening—not that his intervention would have saved the life of one man. The black man expects no quarter, and he gives none. The wounded renewed fury, and the enemy, within five minutes of the explosion, were in ter, and he gives none. The took the death-stab in silence. The wounded

"Are these men all dead?" cried Miles, wiping the damp from his brow. and speaking scarcely above a whisper, as his eyes ranged over dead forms dimly outlined.
"Allah be praised!" cried the chief, wiping his blood-stained sword.
Miles leant against the wall with

Miles leant against the wall with closed eyes, panting, while the warriors raved about the place, screaming in a wild fever of madness, and others crouched around the water barrel. Many writhing on the ground called hoarsely to their friends for help. There were no women to attend them, and their comrades gave them no heed. "Mein Gott, baas, the blood luns. Es ity dood?"

jy dood?

jy dood?"
"Hans, is that you?"
"Ja, sieur. Allevareh! It is better outside the wall."
"What is the matter," said Miles, lifting his heavy lids.
"Old man, you fired the mine well," said the chief. "The gold is yours, but this is no time for talking. Go, and out if the Keffirs refreat." if the Kaffirs retreat.'

"But they run!"
"Go, old man. Englishman, my friend, you fought like ten. Go and drink. Then let us see to the cleansing of the yard. There is no pleasure in the sight of a dead man."

the sight of a dead man."

The Arab in a few minutes obtained a mastery over the band, had them marshalled in a line, and, after praising them, set one half to remove the bodies while the others carried the wounded to the shed, and set about cleansing the yard.

The men went to their work chanting, and when the sun arose the enclosure had regained its trim look, but the signs of the fierce struggle were visible enough. There was scarcely a man who

enough. There was scarcely a man who had not a wound of some kind. In the shed were forty-five wounded, and outside, where a trench was being dug-were a hundred and thirty Matabele, and twenty-three dead Angoni.

Hans came in at daybreak with the report that the enemy had fled to the thorns in a state of depression. He had gathered that the war doctor and his fellow medicine men had taken up a position in the pile of rocks, and had perished in the explosion, a disaster which the Matabele attributed to some evil influence, and the rumor of which, quick-ly circulated in the thick of the light, had done more than anything to dis-hearten them and snatch victory away just when it was within their grasp. The attack had been planned and carried out by a chief.
"How did you find this out?" asked

the chief.
"There was a man crawling, with his

leg broken below the knee, and him I questioned.

And what return did you make him?

"I am not a wolf. I gave him snuff and stopped the wound with earth, so

that the blood flowed not. For this he told me more: namely this, if the a tack failed, Stoffel himself would tak command."

'Ah!"

"Ja; Stoffel has a plan. The indunas rould not hearken to him, and he let

"How many men are there?"

"How many men are there?"
"Two regiments fought last night."
"I saw as much from the shields."
"And another is coming. The man said they would have eaten the Angoni but for two things, the wire that caught their legs and the lightning that their legs and the lightning that

struck the ground where the medicine men stood." "When will Stoffel carry out his

plan?

"The man knew not, but he said there was news that the thing must be done soon, as the impl was wanted elsewhere."

"And I have lost nearly a half of my force. Well, little man, you have done well. The gold I promised is yours. Your master can keep it for you."

An induna came up singing, and behind him nine men, each carrying a shield. They saluted the chief, as they laid each man his shield at the Arab's feet, while the induna, with his assegai uplifted, and the blood still oozing from

dozen wounds, sang: "What is this?"

"These are shields of the men who were slain by the knife. The Great One flashed his burning brand, and they fell. Behold the lion—the lion with the black mane! Nine have fallen to his arm, to the hooked claw. Ho, chief, I, Magana, the buffalo, salute thee. Magana, Seven have I slain in the fight,

my spear."

The warriors took up the cry and chanted the words, stamping with their

The Arab looked at the trophies of

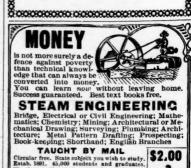
The Arab looked at the trophies of his valor with flashing eyes, and a vision maybe of triumph yet to come against another foe.

"So, Magana. You have fought well, and you I will make captain of a regiment hereafter. But why speak of what one man has done since each has done so well. For a sign of this day let each warrior let into his shield a strip of red, and when the armies are all assembled for the great fight hereafter, each one who comes to me with all assembled for the great fight hereafter, each one who comes to me with
a shield so marked shall be a teader
of men with due reward. The booty
that is here shall be shared among you
when it is safely carried to the river.
See well that you guard it. Keep sharp
your spears, for danger is not past.
Watch, lest the enemy surprise you.
The white man whose plan it was to The white man whose plan it was to build the little fence that tripped the (Continued on page 453.)

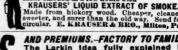
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enemy will stay with us. His word here will be as my word."

"Hail to the Wagna—the great white ox, who trampled the foe, who is cunning and as far-seeing as the eagle, who, like the lightning bird, strikes down his enemy afar."

"My word, baas, this is a man. They were afraid to praise you, so he gave them the word, and there is no malice in him. He is a great leader."

"My friend," said the Arab, suddenly coming to where Miles stood apart, sore from his wounds, "this victory is yours."

sore from his wounds, "this victory is yours."

"No, chief. It is a soldier's victory."

"And it would have been a soldier's burial, too, but for your thought. While we fight together you are chief with me. I have told them so. Now let us eat and rest."

They sought the house, and the chief, from the stores, sent out double rations, with a huge roll of twist tobacco.

"By Allah!" he cried, as he took his seat. "I have spoken great words to the men, but I doubt if one of us ever reaches the river. With five hundred blacks I would give them battle, with a hundred such as you I would fight a way to the river."

"Yet they fought magnificently."

"Ay, there are men among them who would fight while they had strength to stand, but they would be hard to hold in a retreat, with the enemy thways striking. They would break up, or turn to seek death."

"Is there much booty here?"

"There is a good store of gues and

"Is there much booty here?"
"There is a good store of guns and

we retreated and left the booty would not the enemy be glad to b quit of us?"

"My friend, my life is more to Stof-fel than all the booty in the land. It is my life or his; and he has not schemed for wealth to pass his days in terror of my vengeance. If we left we would be followed and over-whelmed."

whelmed." "What then?"

whelmed."

"What then?"

"I spoke to you of a plan. What I think is this. Stoffel will withdraw his men in the hope that we will think the way open and retire. But he will have his force ready to strike as we go over the veldt. We must find out what his movements are, and attack him in the night. We will strike and retire. They would never follow us in the dark. If his force is divided we will have two parties out, and strike them both. This will force him to give battle again. It will break up that plan of his, the thought of which gives me uneasiness. He will assemble all his heel, and when he marches out of his zereba, we will leave here."

"To retreat?"

"No, my friend, to seize his camp.

"No, my friend, to seize his camp.
There are great stores there, and we will be no worse off than here. Such a stroke would dishearten his men.
What do you say?"

"It is a daring scheme, chief. Suppose he leaves a strong body in charge, we would be caught between two fires"

"Wh. should he? He will think his camp safe, and will take forth all his forces to crush us. It seems to me a good scheme."

"You will stake everything on one

"That is the saving of it. Every mau will fight with the strength of ten to seize the zereba, and there is moreover prospect of booty. Stoffel will not guard against such a plan. It is so simple he would not think of it. Come, say, can the thing he done?"

he would not think of it. Come, say, can the thing be done?"

"It can be done if nothing goes wrong. If you have reliable information of his movements, if you can compel him to withdraw all his men to fight, if he does it in the night—then, it can be done."

"Then it must be done. There are four men I can depend on—yourself, the old man, Magana, and myself. We will strike at them this very night, and tomorrow, by Allah! it will be done. The thought of it stirs my blood. It is better to outmatch the enemy's leaders than to kill his men. This morning we will make a map of the land. It is settled. Now you would like to hear of the girl. The noise of the fighting would have roused the dead, and she must be eager to see you."

must be eager to see you."

He clapped his hand and the dark girl came to the door. He gave her an order and left the room.

(To be continued)

Union Ticket Office, Michigan Central and Lake Shore, Move.

The Union Ticket office will be moved from the corner of Woodward and Jefferson Aves. about Dec. 10th to its excellent new quarters in the Detroit Opera House Block.

THE LATEST STORIES

Mrs. Brown (w'o has borrowed butter from her neighbor)—"Do you know, Jane. I half believe this is the same butter we paid the Greenes with day before yesterday."

Jane—"It does taste mighty like it.
Terrible stuff!"

Mrs. Brown—"To Abin's that Alexandrian

Terrible stuff!"
Mrs. Brown—"To think that the Greenes would pass such butter as that on a neighbor! I'm sure it's the same."—Boston Transcript.

The Sultan of Muscat for some weeks past has been making a tour of his possessions. He determined to appropriate the house of a widow and lodge a guard in it. He therefore gave the widow notice to vacate her house and hand it over to his men, but the widow was made of sterner stuff, and absolutely refused to move for the widow was made of sterner stuff, and absolutely refused to move for the Sultan or his army. The woman, moreover, hired ten men and armed them with Martinis, and then defied the Sultan to combat, which was declined, and the widow still holds possession.—Pinang Gazette.

In a New England graveyard there In a New England graveyard there has lately been discovered an epitaph which leaves a wider scope for the imagination of the reader than almost any other which could be composed. A person straying through the little graveyard stooped to read the words on an old slate-stone slab; two winged heads were carved above the epitaph: Here lies the remains of Mary Ann Pratt; Words are wanting to say what. Think what a good woman should be; She was that.

"Why, what are you talking about?" snapped the telegraph to the telephone. "You don't compare with me. I'm the ticket!" "Oh, but you're so old-fashioned," replied the telephone. "Look at my connections. I'm received in some of the best families." And the telegraph simply dashed off in a rage and left the telephone to answer a call from one of the leading bells.

Of William and John Scott, afterward Lord Stowell and Lord Elton, Lord John Russell used to tell this story: When they were young men at the bar, having had a stroke of profes-sional luck, they determined to celesional luck, they determined to cele-brate the occasion by having a dinner

at the tavern and going to the play. When it was time to call for the reckoning William Scott dropped a guin:a. He and his brother searched for it in vain and came to the conclusion that it had fallen between the boards of the uncarpeted floor.

"This is a bad job," said William, "we must give up the play."

"Stop a bit," said John. "I know a trick worth two of that," and he called a waitress.

a waitress.
"Betty," said he, "we've dropped 2 guineas. See if you can find them." Betty went down on her hands and knees and found the guinea, which had rolled under the fender.
"That's a very good girl Betty," said

"That's a very good girl, Betty," said John Scott, pocketing the coin.

"Saw a man undertake to eat four pounds of sponge cake on a wager."
"Did he succeed?"
"No. When he had eaten about half of it he was compelled to throw up the sponge."

Latest from Ireland.—He was a Lim

Latest from Ireland.—He was a Limerick man, and he was summoned at the Petty Sessions for the non-payment of the rent of his cottage. Said he, "Yer Worship, sixpence a week is too much rint entirely for the little cabin. Come down, your honnor, off of the binch there, an' go in yourself, an' if an ass can turn in it, I'll be contint to pay the full sixpence a week."

It was a case of assault by a husband on a wife, and the solicitor for the complainant said to her, "And now. Mrs. Sullivan, will you be kind enough to tell the court whether your husband was in the habit of striking you with impunity?" "With what, sor?" "With impunity?" "Faix, he was, sor, now an' thin," said the witness, "but he struck me oftener wid his fisht."

A man was indicted at the Cork Quarter Sessions for stealing ducks from a farm. The farmer swore he should know his fowls anywhere, as they had certain peculiarities, which he went on to describe. "Why," said the solicitor for the prisoner, "they can't be so very rare. I have some like them in my own yard." "Faix, that might aisily happen," said the farmer, "I've had some of thim stolen before this time."

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Sneezing and watery eyes are the harbingers of cold, and Jayne's Expectorant is the antidote.

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THE MICHIGAN FARMER, Detroit, Mich.

Grange Department.

Our Motto:—"The farmer is of more conse-quence than the farm, and should be first im-proved."

KENYON L. BUTTERFIELD, AGRICULTURAL COLLEGE, - -News from Michigan Granges is esp solicited.

GRANGE CALENDAR.

Huron Co. Pomona, with Verona Mills Grange, December 22.

SUCCESSFUL GRANGE WORK.

We publish in this issue a map of Lenawee county, Michigan, showing the location of the twenty-seven active Granges in the county (the twenty-eighth Grange has been organized since the map was made). Accompanying this map is a most interesting article written by the Master of the State Grange, by whose efforts we all recognize this splendid record in Lenawee county has been made; Brother Horton tells "How It Was Done." We want every Patron in Michigan to read carefully this article of Bro. Horton's and to resolve that he will do his part in bringing about proportionally good results all over the state of Michigan.
THE RECORD.

Twenty-eight active Granges, with over two thousand members, all in good working order, in one countyis Lenawee county's record. As Bro. Horton suggests, their ambition is to make it the greatest Grange county in the United States. as it is now the greatest Grange county in Michigan. HOW?

Bro. Horton himself tells how it was done, but let us put it in our own way and suggest

- 1. That there was a definite plan of This plan was carefully matured along lines that had proved practical so far as tried.
- There was a vast amount of hard, self-sacrificing work.
- Those who did the work kept everlastingly at it.

In other words, Bro. Horton and his helpers abided by the very simple principle of setting a definite standard of work, and then forging ahead toward the goal in spite of all obstacles.

RESULTS,
The whole value of this work can hardly be told. The tangible results are: (1) Two thousand active, wide awake, enthusiastic Patrons. Granges are close enough together to touch elbows and receive all the bene fit that comes from inter-visitation. (3) Thus the Granges help each other; the wavering Grange is strengthened, and the discouraged Grange is enthused. (4) Thus organized the Grange must be a vast power in the social, educa-tional, and in the highest sense, the political, affairs of the county. Grange represents the farmers as a whole, and when the Grange of Lenawee county speaks it means that the greatest interest of the county has spoken. (5) Thus united, the Grange can direct its efforts, from the mere fact of numbers, in ways that would otherwise be out of the question, such as fire insurance for instance.

THE OBVIOUS LESSON,
The plain lesson of Grange success in Lenawee county is, let us do like wise in all the other counties in Michi-It can be done. Lenawee county is an object lesson in the power of the Grange, in the power of organization, in the value of a plan, in the neces sity of hard work, and in the rewards of persistence. But all the brains and energy and self-sacrifice among the farmers of Michigan are not in Lenawee county. The same record can be made elsewhere. It will be made if a few strong men and women in each county resolve that the work shall be done. Brothers and sisters of the Grange, do you so resolve? THE STATE GRANGE.

The State Grange convenes at Lansing next Tuesday morning. Though made up of strong men and women from all over the State, it will need their best thought and devotion if the results that should accrue from such a meeting come about. There are many meeting come about. There are many things that need careful attention and thought. To our mind, there are three matters of large proportion that ought to be looked after with a special care. given special thought, and not neglected for anything else. They are as follows:

lows:

1. Concentration on a few legislative questions. We believe that the State Grange, either as a body or through its executive committee, should select two or three legislative questions for special effort, and be firm in not being led away from these special things. Let the Grange pass its opinion on all phases of legislation that are of interest to the farmers; let the Grange during the legislative session make these opinions known either for or against the various measures; but for the real hard work in the Legislature it is absolutely essential that the Grange concentrate on a few measures. The wisdom of such procedure has been proved.

been proved.

2. A definite and enthusiastic plan 2. A definite and enthusiastic plan for Grange extension. The results in Lenawee county as explained in this issue of The Farmer ought to lead the way as to plans, as well as furnish enthusiasm, for a forward movement in Grange work. The time is most auspicious for such a movement. The Grange is stronger than before for many years in this State. The farmers as a body realize as never before the meaning and value of organization. Other organizations have come and gone, but the Grange still lives and grows. No matter how useful other organizations may be, none can take the

grows. No matter how useful other organizations may be, none can take the place of the Grange. The field is white for the harvest. Shall we go forth with joy to the reaping?

3. A more definite plan for uniform iecture work in Subordinate and Pomona Granges. We don't want a theoretical hard and fast plan that compels every Grange in the State to discuss the same topics on certain days in the year to the exclusion of all else, but we do need more uniformity and definiteness. It is worth while for the Granges of Michigan to make a special study of

settle lared and fast plan that compels every Grange in the State of discuss the same topics on certain days in the year to the excitation of all else, but we do not seek that the state of the state of Michigan to make a special study of certain topics every year, and we have the initiative in this matter and perfect the the initiative in this matter and perfect the the initiative in this matter and perfect the perfect of the state of the stat

kind. It alone will be worthy of your

me at Lansing.
A visit to the State Grange will also A visit to the State Grange will also give an opportunity to receive the instructions of the fifth and sixth degrees in Grange work. The Michigan State Grange has the reputation of conferring these higher degrees of the Order in a very instructive manner, and this year arrangements are being made to surpass all previous efforts along this line. Fourth degree members from counties where a Pomona Grange exists can receive the lessons of the fifth degree at the State Grange and have the fee paid transferred to their home Pomona Grange and there it will pay the fee for joining in the work of the home county Grange. Fifth degree members from all over the State will be much interested in being present to witness the conferring of this degree at the State Grange this year.

The sixth or Degree of Flora will

of this degree at the State Grange this year.

The sixth or Degree of Flora will also be conferred on the same evening, immediately following the work in the fifth. This degree properly belongs to the National Grange. Permission is given the State Grange to confer it for the purpose of placing it within the reach of all Patrons, calculating that every member who receives it will become more devoted to the work of the Order. The State Grange is equipped to confer this most impressive and instructive of all Grange degrees in a very commendable form. Each person receiving the instructions of the sixth degree will be given a beautiful steel engraving illustrative of the ideas conveyed by the degree, free of cost. The engraving will be properly filled in with writing, giving name of its recipient and the time and place of receiving the lessons of the degree. All complete it is suitable for framing and room decoration as an evidence of high standing in the Order.

Fees for the fifth degree are \$1.00 for men and 50 cents for women, and for the sixth degree \$1.00 for men and women alike.

Now sister and brother Patrons from all parts of the State you are urged to lay your plans now for a visit to the State Grange. It comes at a time of year when you can best leave home for a few days, and to thus use a little time and the necessary expense of going will be as bread cast upon the water and will return to you by way of greatly increased confidence in and enthusiasm for the Grange organization, and the organization being thus made stronger will in turn benefit each of you in dollars and cents more than the cost of going to Lansing, and in other ways past reckoning.

Railroads will give one and one-third fare on the certificate plan, and an effort is being made to get one-half The sixth or Degree of Flora will

furnish program. The invitation was accepted.—Dora L. Dowling, Cor.

accepted.—Dora L. Dowling, Cor.

North Branch Grange, No. 607—Lapeer Co.—is getting along finely. Has meeting every Saturday night with a good attendance, and plenty of work for all. November 26 elected officers for next year. Our present very efficient Master, William Willson, was re-elected, with C. E. Barns for secretary.—H. S. Bradshaw, Cor.

Banner Grange, No. 640—Lorio Grange, No. 640—Lo

Banner Grange, No. 640—Ionia Co.—discussed free distribution of seed. All thought it was of no benefit to farmers, and the appropriation for the same should be discontinued. We are having a very interesting contest, consisting of spelling and literary work—Cor.

Montcalm Grange, No. 318—Montcalm Co.—Our Grange is in good core.

monteaim Grange, No. 318—Mont-calm Co.—Our Grange is in good con-dition. Occasionally new members are taken in. We have been having Grange aids, but this winter we are to have Grange socials, which we hope will be a benefit to all who attend.— M. I. J.

BARRY COUNTY POMONA met with Baltimore Grange Friday, November 25. Members from a distance began to arrive about 10 a. m., and when the noon hour came there were about two hundred who surrounded the well-filled tables that had been furnished by the sisters of Johnstown, Baltimore and surrounding Granges furnished by the sisters of Johnstown, Baltimore and surrounding Granges. Afternoon session was called to order in open session by Worthy Master H. N. Bowman. Music by the Grange choir. Address of welcome by Bro. J. E. Tobias. Response by County Deputy G. R. Bowser, in words that were well received by every person present, making us feel that we had the right person in the right place.

The Kimmis salary bill, the Atkinson equal taxation bill, and the advisability of a change in our state constitution, were the three most important questions before the meeting. The two former meet our hearty approval and

former meet our hearty approval and wish for their passage. As to a change in our state constitution, more time and discussion required.—Cor.

GRATIOT COUNTY POMONA GRANGE

was held with Bethany Grange, November 26. On account of very rough roads and a stormy morning, the attendance was not as large as usual. But a very good time was had, and a lively interest was taken in the papers

"HOW IT WAS DONE."

BY GEO. B. HORTON, MASTER STATE GRANGE.

Bro. Butterfield asks me to explain to the Patrons of Michigan how it came about that Lenawee county has twenty-seven active working Granges. It is supposed that the object of this It is supposed that the object of this inquiry is to give other counties the benefit of this experience with its prolific results. For these purposes it is freely given and by way of prelude will say to the many other counties with opportunities equal to Lenawee, "Go thou and do likewise."

Briefly stated this large number of Granges was secured by the adoption of an onen, plain.

of an open, plain
PLAN OF ACTION

PLAN OF ACTION.
carefully, tenaciously, and in a business-like way, executed. Having a deep interest in promoting the interests of the order in Michigan because of honors conferred upon me, and a natural abiding faith in the Grange to accomplish its avowed objects, i. e., the elevation of the farmer socially, educationally, financially, and influentially, plans have been formulated and sent out from this office detailing ways and means for the strengthening of all existing Granges, reviving the dormant and organizing new ones. Experience teaches that plausible theories do not always work well in practice. So for the purpose of trying the plans recommended for others to follow in the execution of the above named work, Lenawee county was made the testing ground or experimental field to the end that none but practical rules be recommended. In saying that all organizing deputies in counties over the State can now be in possession of plain and practical, formulated and printed rules for them to follow in their work, the application of these rules in Lenawee county

formulated and printed rules for them to follow in their work, the application of these rules in Lenawee county makes the assertion uncontrovertible. It is understood that persons are unlike, and that equally successful men arrive at results by different ways. The fact remains, however, that the modus operandi recommended for county deputies applied in Lenawee county has been and is a success. Other plans may work, we know this one does work. one does work.

Other plans may work, we know this one does work.

To be successful organizers the man or woman so engaged must be thoroughly imbued with the justness and merits of their cause and be able to impress their earnestness upon others. They must be reasonably well informed as to the past, present, and future work of the Grange and be able in a fair and candid way to tell it to others. They must be tree from exaggerated statements, pessimistic moanings, demagogical cant, and slurring partisan allusions, for it is the design of our organization to unite farmers for objects higher and more ennobling than these would indicate. At the same time the organizer must not make the mistake of going outside and above the comprehension and understanding of even the most common and plain farmers in the jurisdiction of the proposed new Grange. If you wish to interest a business man, the surest way is to talk to him intelligently about his line of business. If you wish to interest a mother, talk to her about her childrea. If you wish to interest a mother, talk to her about her childrea. If you wish to interest a mother, talk to her about her childrea. If you wish to interest a mother, talk to her about her childrea. If you wish to interest a mother, talk to her about her childrea. If you wish to interest farmers in organization, show them how and in what ways organization will help them as farmers, and residents of country districts. The successful organizer must not fail to

INTEREST THE MOST PROGRESSIVE FARMERS

for it is by these the Grange must be maintained and given standing in the

community.
In short, Lenawee county has community.

In short, Lenawee county has twenty-seven Subordinate Granges and all in good working order, holding meetings every two weeks the whole year around. Membership ranges from thirty or forty to over one hundred, and in no case are Granges so close as to materially injure the strength of each other; while on the other hand many are the cases where sufficient nearness of Granges to permit and encourage visiting at times of regular meetings have held Granges up to good and useful lines of work, when for the lack of capable leaders and this encouragement, they would have become discouraged and gone into a dormant condition. Very few persons will go over about two or three miles to Granges and attend regularly enough to be useful members. The Grange law permitting centers of Subordinate Grange jurisdiction at five miles apart is practical and for

the best interests of the order. Lena-wee county can support thirty Granges and each will be the stronger because of the others. Some of these addi-tional Granges are in process of or-ganization at this time. It is now the ambition of Lenawee county Patrons to make it the

BANNER GRANGE COUNTY IN THE UNIT-ED STATES

ED STATES
in number of working Granges,
Grange halls, libraries, correct ritualistic observances, and in all good and
profitable works as defined in the
Grange Declaration of Purposes. Our
Patrons' Mutual Fire Insurance Company is now on a sound footing, and
is talking more convincingly for itself pany is now on a sound footing, and is talking more convincingly for itself

se found in other counties. As said, and as all Patrons know,
WHAT LENAWEE COUNTY HAS DONE
OTHER COUNTIES CAN DO.

OTHER COUNTIES CAN DO.

How many counties in Michigan will immediately resolve to make a good strong effort. For this start and work it is recommended:

1. That two or three or many working Patrons sign a call to all Patrons asking that they meet at a fixed time for conference.

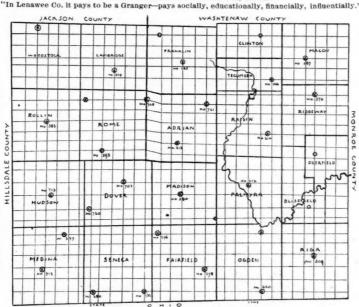
for conference.

2. Agree upon working together for Grange extension, and lay such plans as will when executed bring success.

3. Canvass all the Patrons of the county for a suitable person who will

take the field and make a business of

GRANGE MAP OF LENAWEE CO., MICH. In Lenawee Co. it pays to be a Granger



& Location of Organized Granges

· Localities Considering Organizing

© Location of Organized Granges.

The following gives the names of organized Granges in Lenawee county, the numbers referring to the numbers on the map:
165 Tipton (hall over a store).
166 Tecumseh (bullds hall next year).
167 Macon (owns its hall).
212 Palmyra (owns its hall).
213 Adrian (owns its hall).
214 Raisin (owns its hall).
216 Fruit Ridge (owns its hall).
217 Medina (owns its hall).
218 Fairfield (owns its hall).
219 Onsted (owns its hall).
219 Onsted (owns its hall).
210 Morenci (meets over store).
221 North Adrian (owns its hall).
222 North Adrian (owns its hall).
233 Rome (owns its hall).
244 Raisin (owns its hall).
255 Morenci (meets over store).
256 Fruit Ridge (owns its hall).
277 Fairfield (owns its hall).
278 Fairfield (owns its hall).
279 Onsted (owns its hall).
270 Onsted (owns its hall).
271 North Adrian (owns its hall).
272 Sugartown (has bought P. of I. hall).
273 Sugartown (has bought P. of I. hall).
274 The one in Rome township is North Rome Grange, a new Grange, which proposes to build a hall.
278 The one in Ogden township is Victorsville Grange, a new Grange, which has its own building.

The one in Ogden township is Victorsville Grange, a new Grange, which has its own building.

The one in Ogden township is victors own building.

than its most enthusiastic members can. Our County Grange is alive to its mission and no Subordinate Grange will be allowed to sleep the sleep of dormancy. Not a single dormant charter exists in the county. The best and most influential farmers of the county do not hesitate to become enrolled as members and workers, and all think, talk and act for the Grange on all proper occasions.

It is impossible to here enumerate the names of those who have faithfully labored for this present high standard, for they are many, and they are honored and respected for their loyalty to so grand and worthy an object. The success of the order in Lenawee county is now assured, for from experience all know how to live over and above the disorganizing influences which in years gone by have fluences which in years gone by have done such damage among the Granges

done such damage among the Granges of Michigan.

As this communication may be read by many of our working Patrons, I must here add that the younger class of farmers and young people of the country in general must be interested in Grange work as well as the older ones, and to do this in a reasonable and healthful manner should be the study of every Grange Deputy and also of all our working members who seek to do that which is best for our existing Granges.

ents for organizing work superior to deputy organizing work, giving those who have had successful experience the preference if they will give the time to it necessary to success.

4. Send immediately to the State Grange Master's office for details of procedure and general printed matter to aid in the work.

5. Agree to stand faithfully by the efforts of the Deputy and assist in all possible ways.

possible ways.

Under present regulations an organizing deputy gets pay sufficient to make a good and profitable steady job, but he must be successful to win. Correspondence from all Patrons and

Correspondence from all Patrons and Deputies solicited.
Fruit Ridge, Mich., November, 1898.

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presents.

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HANDKERCHIEFS.

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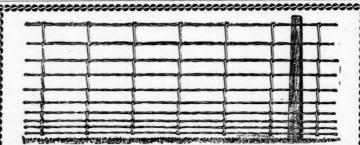
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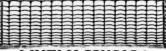


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